

April 14, 2017  
Sacramento, California

The Board of Trustees of the American River Flood Control District met in regular session in its office at 185 Commerce Circle, Sacramento, CA at 11:00 a.m. on Friday, , April 14, 2017. In attendance were Trustee Holloway, Trustee Redway and Trustee Pavão. Trustee Shah was absent. Trustee Holloway presided. Also present from the District were General Manager (GM) Tim Kerr, Superintendent Richard Marck, Field Supervisor Ross Kawamura, Legal Counsel David Aladjem and Office Manager Malane Chapman. Mr. Robert Merritt was present from Robert Merritt, CPA. and Ms. Ingrid Sheipline, CPA. was present from Richardson & Company LLP. Two members of the public were present.

*Item No. 1 Public Comments on Non-Agenda Items:* There were no comments on non-agenda items from members of the public.

*Item No. 2 Appointment of New Board Member:* Trustee Holloway spoke to the quality of both applicants. He asked the Board to deliberate on which candidate they would select. On a motion by Trustee Redway seconded by Trustee Pavão, the Board appointed Steven T. Johns to the American River Flood Control District Board of Trustees.

Roll Call Vote:

Trustee Holloway	AYE
Trustee Redway	AYE
Trustee Pavão	AYE

*Item No. 3 Oath of Office for New Board Appointed Trustee:* Trustee Holloway administered the Oath of Office for Trustee Johns.

*Item No. 4 Make Personnel Assignments to Existing Standing/Ad-Hoc Committees for 2017:* The Board reviewed the current Committee Assignments and made the following changes:

- Brian F. Holloway – Removed from Policy
- Steven T. Johns – Added to Policy
- Bettina C. Redway – Removed from Newsletter
- Steven T. Johns – Added to Newsletter
- William J. Pavão – Removed as Director, LAFCO Special District Advisory Committee
- Steven T. Johns – Added as Director, LAFCO Special District Advisory Committee
- Bettina C. Redway – Added as Alternate Director SAFCA

*Item No. 5 Approval of Consent Agenda Items:* On a motion by Trustee Pavão seconded by Trustee Redway, the Board unanimously approved Items 5a) Minutes of

Regular Meeting on March 10, 2017, 5b) Minutes of Special Meeting on March 23, 2017, 5c) Minutes of Special Meeting on April 6, 2017 and 5f) Correspondence: None.

*Item No. 5d) Approval of Report of Investment Transactions February 2017 (City Pool, LAIF, River City) and Treasurer's Certification:* Trustee Pavão asked about the balance at River City. Following explanation by staff and on a motion by Trustee Pavão seconded by Trustee Johns, the Board unanimously approved the item.

*Item No. 5e) District Financial Reports: Statement of Operations (March 2017) and Cash Flow Report:* Trustee Redway requested clarification regarding Levee Maintenance Chemicals and Employee Benefits. Following explanation by staff and on a motion by Trustee Pavão seconded by Trustee Johns, the Board unanimously approved the item.

*Item No. 6 Accounts Payable and General Fund Expenses (March 2017):* Trustee Pavão requested clarification regarding payments to California Conservation Corp and West Coast Arborists. Trustee Holloway requested clarification on the credit to AT&T Analog. On a motion by Trustee Redway seconded by Trustee Pavão, the Board unanimously approved payments on the Schedule of Accounts Payable (March 2017) of \$110,771.31 and General Fund Expenses of \$81,903.02 (total aggregate sum \$192,674.33).

*Item No. 7 Designation of Surplus Equipment: 2001 GMC Pickup Truck:* Following explanations by the staff and on a motion by Trustee Pavão seconded by Trustee Johns, the Board unanimously approved this item.

*Item No. 8 Final FY 2015-16 Audit:* The Board reviewed the final audit. Trustee Redway asked about Note E – Pension Plans and GASB 68. Trustee Holloway asked for clarification about Note D – Long-Term Liabilities. Following explanation by Ms. Sheipline and on a motion by Trustee Redway seconded by Trustee Johns, the Board unanimously approved the final audit.

*Item No. 9 Naming of the District Facilities:* The Board discussed naming of the District Facilities or Boardroom after Karolyn W. Simon. After discussion with Legal Counsel Aladjem and on a motion by Trustee Pavão seconded by Trustee Redway, the Board unanimously approved naming the Boardroom the Karolyn W. Simon Boardroom.

*Item No. 10 Presentation to Retiring Employee*

- *Resolution 2017-04: Recognizing and Commending Richard Marck on the Occasion of His Retirement:* GM Kerr read the resolution to the Board and staff honoring Mr. Marck for his 26 years of service to the District. Mr. Aladjem read a letter to Mr. Marck for making the District and Sacramento a much better place.

Trustee Holloway expressed appreciation to Richard Marck for his dedication and length of service noting he will be missed. On a motion by Trustee Redway seconded by Trustee Pavão, the Board approved the resolution. Ayes: Trustee Holloway, Trustee Pavão, Trustee Redway and Trustee Johns.

*Item No. 11 Administrative Staff Reports:*

a) *General Manager Tim Kerr reported on the following:*

- General Manager's March Meeting Summary: Glenbrook West Apartments Site Visit, Beaver Damage, and City/Maintenance Area 9/ARFCD System Wide Improvement Framework meetings were discussed;
- District Policy for Stairs on Levees: GM Kerr discussed various elements to consider for levee stairs;
- Email Security Alert: GM Kerr briefed the Board on a fraudulent email that was sent to River City Bank and steps the District has taken to prevent further emails;
- Hydrologic Conditions: Folsom Lake is 69% full with an outflow of 10,000 cfs. The gauge at the I Street Bridge shows a water surface elevation of 23 feet above sea level;
- Next Board Meeting is scheduled for May 12, 2017.

b) *Legal Counsel David Aladjem had nothing further to report.*

c) *Office Manager Malane Chapman reported on the following:*

- CSDA Board Secretary/Clerk Conference: The CSDA Board Secretary Conference will be held in Anaheim on October 22, 23 and 24. Office Manager Chapman expressed interest in attending the conference for networking and continuing education opportunities. The Board directed GM Kerr to register Ms. Chapman for the conference and to attribute the costs to staff training;
- Board Tour of District Facilities: Date has been set for May 12 following the Board meeting;
- Summer Gathering for Board and Staff: Activities such as bowling and bocce ball were discussed;
- New Copy Machine for District: Office Manager Chapman briefed the Board on the status of the current copy machine. After discussing the pros and cons of leasing versus purchasing, the Board directed Staff to lease a new copier.

*Item No. 12 Operations and Maintenance Staff Reports:*

a) *Field Supervisor Ross Kawamura reported on:*

- Crew activities including tree removal, mowing and building up a portion of the levee.

*Item No. 13 Questions and Comments by Trustees:* Trustee Redway asked that the General Fund and Account Payable be printed on 8 ½ x 11 or 11 x 14 sized paper. Trustee Redway also suggested looking at electronic Board packets.

*Item No. 14 Adjourn:* There being no further business requiring action by the Board, the meeting was adjourned by Trustee Holloway at 1:08 p.m.

Attest:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
President

DRAFT

**American River Flood Control District  
Staff Report**

**Investment Transactions Summary; March 2017**

**LAIF:**

- There were no transactions in this account during the month of March.

**City Pool A**

- Accrued Interest Receivable for the month of March was \$9,008.51.
- As of March 31, 2017 the balance of Interest Receivable in this account was \$71,750.71.

Interest Receivable is accrued and transferred to the Cash Balance at the discretion of the City.

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**River City Bank:**

- Total amount of Accounts Payable cleared during the month of March was \$204,838.39
- On March 31, 2017 a monthly interest payment was deposited in the amount of \$194.44.

**American River Flood Control District  
Investment Transaction Report  
March 2017**

Item 2b

**Balance and Transactions**

<b>Account</b>		<b>LAIF</b>	<b>City Pool A</b>	<b>River City Bank</b>
Beginning Balance	3/1/17	\$758,957.19	\$7,167,066.57	\$981,723.86
<b>Transactions</b>				
City Pool A Interest **	3/31/17		9,008.51	
River City Bank Interest	3/31/17			194.44
Accounts Payable (cleared)				(204,838.39)
<b>Ending Balance:</b>	<b>3/31/17</b>	<b>\$758,957.19</b>	<b>\$7,167,066.57</b>	<b>\$777,079.91</b>

\*\*City Pool A Interest is accrued and deposited in the account at the discretion of the City.

**Interest**

Date:	Apr 2016	May 2016	June 2016	July 2016
LAIF	0.53	0.53	0.58	0.59
City Pool A	1.24	1.24	1.20	1.25
River City Bank	0.08	0.20	0.20	0.20
Date:	Aug 2016	Sept 2016	Oct 2016	Nov 2016
LAIF	0.62	0.63	0.65	0.65
City Pool A	1.24	1.34	1.22	1.32
River City Bank	0.20	0.17	0.25	0.25
Date:	Dec 2016	Jan 2017	Feb 2017	<b>Mar 2017</b>
LAIF	0.65	0.75	0.75	<b>0.82</b>
City Pool A	1.17	1.39	1.58	<b>1.47</b>
River City Bank	0.16	0.19	0.25	<b>0.25</b>

**American River  
Flood Control  
District**

# AMERICAN RIVER FLOOD CONTROL DISTRICT

## MONTHLY REVIEW – MARCH 2017

### STRATEGY

The ARFCD funds are invested in the City of Sacramento’s Pool A investment fund. The Fund is invested pursuant to the objectives and requirements set forth in the City’s investment policy. The three objectives of the investment policy, in order of priority, are (1) the preservation of capital by the investment in safe instruments, (2) the liquidity needs of the City and pool participants so such parties will have access to cash when they need it, and (3) the maximizing of current income while remaining consistent with the other more important objectives. The City’s investment policy incorporates applicable provisions of state law including, among other things, the prudent person standard and California Code Section 53601 pertaining to eligible investments.

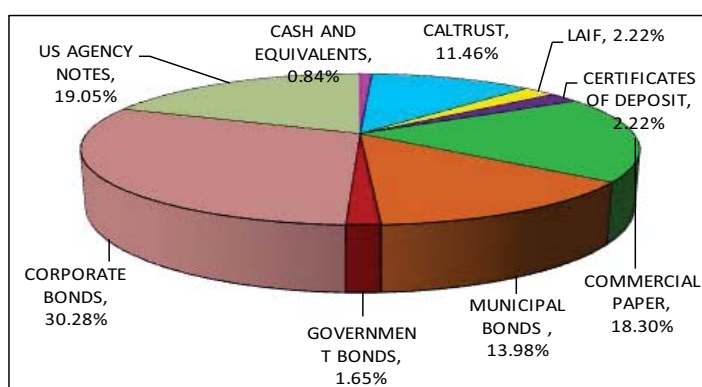
### PORTFOLIO STATISTICS

Portfolio’s Beginning Balance	7,229,809
Contributions	0
Withdrawals	0
Interest Earned	9,009
Month-End Market Value	7,238,818

### PERFORMANCE

Earned Interest Yield for the Month	1.47%
Laif Rate of Return (book value)	0.82%
90 Day T-Bill	0.71%
Federal Funds	0.77%

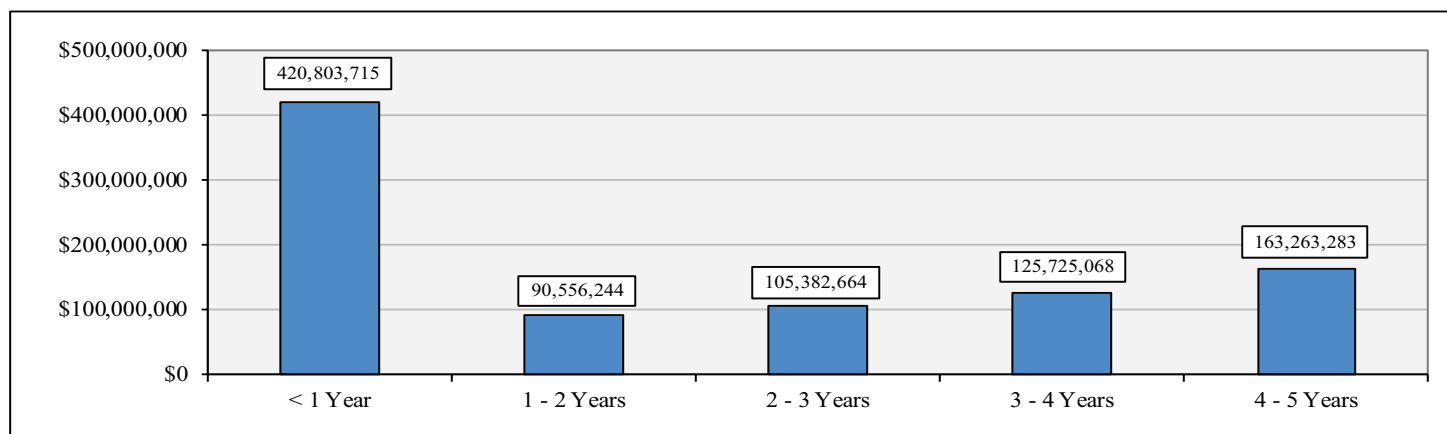
### POOL A BY ASSET CLASS



### POOL A MATURITY SCHEDULE

Maturity	Market Value	%
< 1 Year	420,803,715	46.45%
1 - 2 Years	90,556,244	10.00%
2 - 3 Years	105,382,664	11.64%
3 - 4 Years	125,725,068	13.88%
4 - 5 Years	163,263,283	18.03%
Total	905,730,974	100.00%

Investment Description	Portfolio at Cost	Yield at Month End
CASH AND EQUIVALENTS	0.84%	0.01%
CALTRUST	11.46%	1.10%
LAIF	2.22%	0.82%
CERTIFICATES OF DEPOSIT	2.22%	1.96%
COMMERCIAL PAPER	18.30%	1.15%
MUNICIPAL BONDS	13.98%	1.73%
GOVERNMENT BONDS	1.65%	1.90%
CORPORATE BONDS	30.28%	1.84%
US AGENCY NOTES	19.05%	1.39%





City of Sacramento  
 CASH LEDGER  
*American River Flood Control District*  
 From 03-01-17 To 03-31-17

Item 2b

**All Cash Accounts**

Trade Date	Settle Date	Tran Code	Quantity	Security	Amount	Cash Balance
<b>Pool A Interest Receivable</b>						
03-01-17				Beginning Balance		62,742.20
03-31-17	03-31-17	in		Pool A Cash	9,008.51	71,750.71
				Mar 2017 estimated Pool A interest		
					9,008.51	
03-31-17				Ending Balance		71,750.71
<b>Pool A Cash</b>						
03-01-17				Beginning Balance		7,167,066.57
03-31-17				Ending Balance		7,167,066.57

**Local Agency Investment Fund**  
**P.O. Box 942809**  
**Sacramento, CA 94209-0001**  
**(916) 653-3001**

[www.treasurer.ca.gov/pmia-laif/laif.asp](http://www.treasurer.ca.gov/pmia-laif/laif.asp)  
April 07, 2017

AMERICAN RIVER FLOOD CONTROL DISTRICT

DISTRICT ENGINEER/MANAGER  
165 COMMERCE CIRCLE, SUITE D  
SACRAMENTO, CA 95815

[PMIA Average Monthly Yields](#)

**Account Number:**  
90-34-002

[Tran Type Definitions](#)

March 2017 Statement

**Account Summary**

Total Deposit:	0.00	Beginning Balance:	758,957.19
Total Withdrawal:	0.00	Ending Balance:	758,957.19



# River City Bank

WWW.RIVERCITYBANK.COM  
PO Box 15247, Sacramento, CA 95851-0247  
Return Service Requested

Item 2b



## REPURCHASE

Last statement: February 28, 2017  
This statement: March 31, 2017  
Total days in statement period: 31

AMERICAN RIVER FLOOD CONTROL DISTRICT  
185 COMMERCE CIRCLE  
SACRAMENTO CA 95815-4233

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0811100952  
( 0)

Direct inquiries to:  
916-567-2836

### Business Int Checking Plus

Account number	0811100952	Beginning balance	\$981,723.86
Low balance	\$776,885.47	Total additions	194.44
Average balance	\$915,658.70	Total subtractions	204,838.39
Avg collected balance	\$915,658	Ending balance	\$777,079.91

#### DEBITS

Date	Description	Subtractions
03-01	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	251.38
03-02	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	244.23
03-03	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	5,112.37
03-06	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	270.00
03-08	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	297.00
03-10	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	118.81
03-13	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	588.00

**REPURCHASE**

AMERICAN RIVER FLOOD CONTROL DISTRICT  
March 31, 2017

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0811100952

<b>Date</b>	<b>Description</b>	<b>Subtractions</b>
03-15	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	29,046.88
03-16	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	536.14
03-17	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	10,026.17
03-20	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	13,040.35
03-21	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	44,252.90
03-22	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	4,073.53
03-23	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	52,366.26
03-24	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	292.12
03-27	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	140.00
03-28	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	367.13
03-30	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	321.70
03-31	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	43,493.42

**CREDITS**

<b>Date</b>	<b>Description</b>	<b>Additions</b>
03-31	' Interest Credit	194.44

**DAILY BALANCES**

<b>Date</b>	<b>Amount</b>	<b>Date</b>	<b>Amount</b>	<b>Date</b>	<b>Amount</b>
02-28	981,723.86	03-03	976,115.88	03-10	975,430.07
03-01	981,472.48	03-06	975,845.88	03-13	974,842.07
03-02	981,228.25	03-08	975,548.88	03-15	945,795.19

## REPURCHASE

AMERICAN RIVER FLOOD CONTROL DISTRICT  
 March 31, 2017

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 0811100952

Date	Amount	Date	Amount	Date	Amount
03-16	945,259.05	03-22	873,866.10	03-28	820,700.59
03-17	935,232.88	03-23	821,499.84	03-30	820,378.89
03-20	922,192.53	03-24	821,207.72	03-31	777,079.91
03-21	877,939.63	03-27	821,067.72		

### INTEREST INFORMATION

Annual percentage yield earned	0.25%
Interest-bearing days	31
Average balance for APY	\$915,658.70
Interest earned	\$194.44

### OVERDRAFT/RETURN ITEM FEES

	Total for this period	Total year-to-date
Total Overdraft Fees	\$0.00	\$0.00
Total Returned Item Fees	\$0.00	\$0.00



**River City Bank**

WWW.RIVERCITYBANK.COM

PO Box 15247, Sacramento, CA 95851-0247

Return Service Requested

Item 2b

**CHECKING**



Last statement: February 28, 2017

This statement: March 31, 2017

Total days in statement period: 31

AMERICAN RIVER FLOOD CONTROL DISTRICT  
185 COMMERCE CIRCLE  
SACRAMENTO CA 95815-4233

Page 1  
0811090736  
( 53)

Direct inquiries to:  
916-567-2836

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**Business Interest Checking**

Account number	0811090736	Beginning balance	\$-1.26
Enclosures	53	Total additions	204,838.39
Low balance	\$0.00	Total subtractions	204,837.55
Average balance	\$0.00	Ending balance	\$-.42
Avg collected balance	\$0		

**CHECKS**

Number	Date	Amount	Number	Date	Amount
5530	03-08	297.00	5780 *	03-22	1,045.22
5706 *	03-01	55.00	5782 *	03-21	1,193.76
5724 *	03-13	180.00	5784 *	03-22	573.86
5735 *	03-02	94.23	5786 *	03-28	347.13
5746 *	03-27	40.00	5788 *	03-21	201.73
5752 *	03-01	195.12	5790 *	03-21	482.75
5753	03-06	270.00	5791	03-21	232.60
5754	03-13	168.00	5792	03-20	1,854.00
5755	03-10	118.81	5793	03-21	157.50
5756	03-13	240.00	5796 *	03-23	193.63
5757	03-21	2,462.97	5797	03-21	168.87
5758	03-21	1,017.50	5798	03-21	5,800.00
5760 *	03-21	379.50	5799	03-23	375.00
5762 *	03-21	663.04	5800	03-20	712.50
5764 *	03-17	158.24	5801	03-20	350.00
5766 *	03-17	2,621.70	5802	03-22	999.45
5768 *	03-21	528.19	5803	03-20	1,180.90
5770 *	03-24	45.41	5804	03-21	675.26
5772 *	03-21	245.20	5805	03-24	121.71
5774 *	03-22	1,405.00	5806	03-21	174.21
5776 *	03-23	51,797.63	5807	03-21	4,504.00
5778 *	03-21	389.56	5808	03-21	24,976.26

**CHECKING**

AMERICAN RIVER FLOOD CONTROL DISTRICT  
March 31, 2017

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Number	Date	Amount	Number	Date	Amount
5809	03-20	50.00	5815	03-22	50.00
5810	03-17	50.00	5816	03-20	8,740.00
5812 *	03-27	50.00	5817	03-24	125.00
5813	03-28	20.00	5818	03-31	12,724.00
5814	03-27	50.00	* Skip in check sequence		

**DEBITS**

Date	Description	Subtractions
03-02	' ACH Withdrawal HEALTHEQUITY INC HealthEqui 170302	150.00
03-03	' ACH Withdrawal CALPERS 3100 100000014780957	645.89
03-03	' ACH Withdrawal CALPERS 1900 100000014921969	850.00
03-03	' ACH Withdrawal CALPERS 3100 100000014777992	3,616.48
03-15	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 170315 946000047	29,046.88
03-16	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 170316 946000047	536.14
03-17	' ACH Withdrawal CALPERS 3100 100000014777992	3,237.20
03-17	' ACH Withdrawal CALPERS 3100 100000014780957	585.96
03-17	' ACH Withdrawal CALPERS 1900 100000014928897	850.00
03-17	' ACH Withdrawal CALPERS 1900 100000014920880	2,523.07
03-20	' ACH Withdrawal HEALTHEQUITY INC HealthEqui 170320	152.95
03-30	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 170330 946000047	321.70
03-31	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 170331 946000047	30,769.42
03-31	' Service Charge ADDITIONAL DEBITS	0.42

**CREDITS**

Date	Description	Additions
03-01	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	251.38



**CHECKING**

AMERICAN RIVER FLOOD CONTROL DISTRICT  
March 31, 2017

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0811090736

<b>Date</b>	<b>Description</b>	<b>Additions</b>
03-02	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	244.23
03-03	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	5,112.37
03-06	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	270.00
03-08	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	297.00
03-10	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	118.81
03-13	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	588.00
03-15	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	29,046.88
03-16	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	536.14
03-17	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	10,026.17
03-20	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	13,040.35
03-21	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	44,252.90
03-22	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	4,073.53
03-23	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	52,366.26
03-24	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	292.12
03-27	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	140.00
03-28	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	367.13



**CHECKING**

AMERICAN RIVER FLOOD CONTROL DISTRICT  
 March 31, 2017

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 0811090736

Date	Description	Additions
03-30	Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	321.70
03-31	Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	43,493.42

**DAILY BALANCES**

Date	Amount	Date	Amount	Date	Amount
02-28	-1.26	03-13	0.00	03-23	0.00
03-01	0.00	03-15	0.00	03-24	0.00
03-02	0.00	03-16	0.00	03-27	0.00
03-03	0.00	03-17	0.00	03-28	0.00
03-06	0.00	03-20	0.00	03-30	0.00
03-08	0.00	03-21	0.00	03-31	-0.42
03-10	0.00	03-22	0.00		

**INTEREST INFORMATION**

Annual percentage yield earned	0.00%
Interest-bearing days	31
Average balance for APY	\$0.00
Interest earned	\$0.00

**OVERDRAFT/RETURN ITEM FEES**

	Total for this period	Total year-to-date
Total Overdraft Fees	\$0.00	\$0.00
Total Returned Item Fees	\$0.00	\$0.00

**CERTIFICATION**

The American River Flood Control District's investment portfolio [] is [ is not] in compliance with the District's Financial Management Investments Plan.

The District's investment portfolio is not in compliance in the following respects:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A cash flow analysis confirms that the District [ is] [ is not] expected to be able to meet its expenditure requirements for the next six months.

The District's cash is insufficient to meet obligations for the next six months as a result of the following:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attached hereto are the most recent statements of accounts of the following District accounts:

- LAIF Account, State Treasurer's Office                      **Dated March 2017**
- Investment Pool A Account, City of Sacramento **Dated March 2017**
- District Checking Account, River City Bank                      **Dated March 2017**
- District Repurchase Account, River City Bank                      **Dated March 2017**

Certified by: \_\_\_\_\_ Date: \_\_\_\_\_  
Cyril Shah, District Treasurer

**American River Flood Control District**  
**Statement of Operations**  
**July 1, 2016 to April 30, 2017 (Ten Months Ending of Fiscal Year 2016-2017)**  
**For Internal Use Only**

	Year to Date July 1, 2016 to April 30, 2017	Budget	Percent of Budget
<b>Revenues</b>			
Benefit assessment	\$ 739,553	\$ 1,385,000	53.40%
Consolidated capital assessment	650,000	650,000	100.00%
Interest	86,382	75,000	115.18%
O & M agreements	-	225,000	0.00%
Reserve fund transfers	-	-	Not budgeted
Miscellaneous	3,961	-	Not budgeted
<b>Total Revenues</b>	<b>\$ 1,479,896</b>	<b>\$ 2,335,000</b>	<b>63.38%</b>
<b>M &amp; O Expenses</b>			
Salaries and wages	\$ 603,555	\$ 675,000	89.42%
Payroll tax expense	43,352	54,000	80.28%
Pension expense	106,044	119,536	88.71%
Compensation insurance	27,083	33,750	80.25%
Medical/dental/vision	154,191	116,265	132.62%
Fuel/oil reimbursement	15,292	30,000	50.97%
Equipment rental	902	6,500	13.88%
Equipment repairs/parts	40,317	40,000	100.79%
Equipment purchases (< \$1,000)	-	500	0.00%
Shop supplies	6,646	12,000	55.38%
Levee maint. (supp. & material)	15,013	17,000	88.31%
Levee maint. chemicals	22,356	10,000	223.56%
Levee maint. services	49,773	34,000	146.39%
Rodent abatement (supplies & materials)	3,132	10,000	31.32%
Employee uniforms	1,401	7,000	20.01%
Staff training	2,704	15,000	18.03%
Miscellaneous	1,311	2,000	65.55%
Small tools & equipment	2,868	3,000	95.60%
Emergency preparedness program	76,948	20,000	384.74%
Engineering services	17,702	8,000	221.28%
Encroachment remediation	-	15,000	0.00%
<b>Total M &amp; O Expenses</b>	<b>\$ 1,190,590</b>	<b>\$ 1,228,551</b>	<b>96.91%</b>
<b>Administration Expenses</b>			
Board of trustees compensation	\$ 6,048	\$ 7,900	76.56%
Trustee expenses	1,479	1,750	84.51%
Accounting services	12,250	15,000	81.67%
Legal services (general)	23,819	50,000	47.64%
Utilities	21,027	25,000	84.11%
Telephone	12,066	12,500	96.53%
Retiree benefits	99,589	115,000	86.60%
Office equipment/furniture	-	10,000	0.00%
Office supplies	1,414	2,000	70.70%
Auto allowance	5,899	7,100	83.08%
Parking reimbursement	31	150	20.67%
General office expense	8,070	13,000	62.08%
Technology and software	3,777	17,000	22.22%
Dues and associations	20,631	25,000	82.52%
Property and liability insurance	26,838	30,000	89.46%
Conference/workshop/seminar	-	1,500	0.00%
Public relations/information	29,102	35,000	83.15%
Miscellaneous	2,923	5,000	58.46%
Employee morale/wellness	156	1,500	10.40%
Election expenses	1,669	81,826	2.04%
Investment fees	7,179	13,000	55.22%
Community services	1,000	1,500	66.67%
Bookkeeping services	9,580	12,000	79.83%
Property taxes	1,597	3,000	53.23%
Building maintenance	4,765	17,000	28.03%
County Dtech fees for DLMS	24,477	24,477	100.00%
County assessment fees (non cash)	-	21,000	0.00%
<b>Total Administration Expenses</b>	<b>\$ 325,386</b>	<b>\$ 548,203</b>	<b>59.36%</b>
<b>Special Projects Expenses</b>			
Engineering studies/survey studies	\$ -	\$ 15,000	0.00%
Levee standards compliance	-	100,000	0.00%
Small capital projects	-	50,000	0.00%
<b>Total Special Project Expenses</b>	<b>\$ -</b>	<b>\$ 165,000</b>	<b>0.00%</b>
<b>Capital Outlay</b>			
Property acquisition	\$ 500	\$ -	Not budgeted
Equipment purchases (over \$1,000)	106,131	54,000	196.54%
<b>Total Capital Outlay</b>	<b>\$ 106,631</b>	<b>\$ 54,000</b>	
<b>Capital Outlay: District Headquarters Build-Out</b>			
Building improvements/maintenance	\$ 5,063	\$ 60,000	8.44%
La Riviera improvements/maintenance	9,323	20,000	46.62%
	<b>\$ 14,386</b>	<b>\$ 80,000</b>	

**Note: Amounts above are not audited**

**The above information is current through the last day of the previous month's bank activity.**

**Data has been verified by the bookkeeper and physical copies of checks have not been reviewed or received and some checks may not have cleared the bank account.**

AMERICAN RIVER FLOOD CONTROL DISTRICT  
Cash Flow Report  
July 2016 through June 2017

Cash Flow Report

Maintenance and Operations Expens	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
500 · Salary/Wages	56,125.60	55,843.98	64,572.72	51,676.92	55,344.62	85,408.20	39,148.62	68,542.02	60,405.92	55,555.52	61,597.66	0.00	654,221.78
501 · Payroll Taxes	4,360.70	4,167.93	4,855.19	2,907.79	3,506.69	5,201.50	3,733.64	5,735.65	4,687.87	4,316.85	4,705.68	0.00	48,179.49
502 · Pension	10,310.75	9,630.47	10,815.06	8,771.15	13,687.31	10,303.44	12,142.32	8,141.99	10,608.60	13,781.00	2,523.07	0.00	110,715.16
503 · Compensation Insurance	8,484.00	0.00	0.00	9,236.16	0.00	0.00	8,805.00	0.00	0.00	9,041.85	0.00	0.00	35,567.01
504 · Medical/Dental/Vision	16,646.34	14,389.90	14,109.90	12,455.01	44.00	28,507.35	15,922.82	15,546.15	15,546.15	15,546.15	0.00	0.00	148,713.77
508 · Fuel/Oil	1,320.90	2,987.36	1,317.95	1,781.85	930.82	1,277.39	1,070.32	2,388.89	2,462.97	2,213.42	0.00	0.00	17,751.87
509 · Equipment Rental	0.00	0.00	0.00	0.00	0.00	901.95	0.00	0.00	0.00	0.00	0.00	0.00	901.95
510 · Equipment Purchase(< \$1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
511 · Equipment Repair/Parts	7,172.68	3,366.56	3,972.04	13,573.14	573.00	2,001.65	4,454.30	3,203.27	3,142.31	6,118.19	0.00	0.00	47,577.14
512 · Shop Supplies	754.61	1,476.69	431.12	0.00	945.98	1,944.01	371.50	660.53	601.09	511.60	16.66	0.00	7,713.79
514 · Levee Maint(Supplies&Materi	1,988.31	1,344.37	3,534.23	5,255.20	2,762.51	(27.37)	775.95	512.67	168.87	69.28	343.20	0.00	16,727.22
515 · Levee Maintenance Services	549.25	1,182.21	3,160.05	3,840.00	9,945.40	973.39	11,331.88	112.00	5,810.00	9,009.50	0.00	0.00	45,913.68
516 · Employee Uniforms	402.61	0.00	0.00	0.00	893.53	105.15	0.00	0.00	0.00	0.00	0.00	0.00	1,401.29
518 · Staff Training	210.00	532.63	350.00	52.00	832.52	908.75	0.00	0.00	240.00	0.00	0.00	0.00	3,125.90
519 · Miscellaneous O&M	250.00	0.00	0.00	0.00	1,061.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,311.00
521 · Small Tools & Equip(<\$500)	0.00	759.50	0.00	0.00	462.67	91.95	219.31	0.00	280.75	1,054.03	0.00	0.00	2,868.21
523 · Levee Maint. (Chemicals)	14.62	2,952.97	0.00	0.00	17,206.57	0.00	2,692.44	0.00	0.00	0.00	0.00	0.00	22,866.60
525 · Emergency Preparedness Pr	0.00	8,400.00	0.00	0.00	157.50	1,928.75	1,597.22	7,883.70	54,748.29	1,680.70	0.00	0.00	76,396.16
530 · Encroachment Remediation I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
532 · Rodent Abatement	107.76	172.91	568.44	345.44	769.99	1,129.29	0.00	77.92	68.00	0.00	0.00	0.00	3,239.75
605 · Engineering Services	0.00	0.00	0.00	0.00	8,171.25	5,442.00	0.00	170.00	3,639.20	279.75	0.00	0.00	17,702.20
615 · Survey Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
616 · Envionmental Services/Studi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total M&amp;O Expense</b>	<b>108,698.13</b>	<b>107,207.48</b>	<b>107,686.70</b>	<b>109,894.66</b>	<b>117,295.36</b>	<b>146,097.40</b>	<b>102,265.32</b>	<b>112,974.79</b>	<b>162,410.02</b>	<b>119,177.84</b>	<b>69,186.27</b>	<b>0.00</b>	<b>1,262,893.97</b>

Administrative Expenses	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
505 · Telephone	1,733.26	2,364.63	1,341.34	1,532.36	1,476.56	1,482.08	1,128.68	1,872.80	675.26	1,718.93	0.00	0.00	15,325.90
506 · Utility Charges	2,857.61	2,312.88	1,282.40	3,544.46	847.60	3,569.88	704.71	2,880.25	2,358.91	2,472.21	0.00	0.00	22,830.91
507 · Office/Shop Lease	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
513 · Office Supplies	489.07	127.74	185.26	124.41	490.77	120.56	154.42	0.00	0.00	368.64	0.00	0.00	2,060.87
517 · Auto Allowance	550.00	550.00	550.00	550.00	550.00	825.00	275.00	550.00	550.00	550.00	550.00	0.00	6,050.00
520 · Retiree Benefits	9,129.24	9,129.24	9,129.24	5,850.93	0.00	18,277.23	9,430.11	9,430.11	9,430.11	9,430.11	0.00	0.00	89,236.32
522 · Office Equipment/Furniture	0.00	112.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.24
526 · Mileage/Parking Reimburse	0.00	0.00	0.00	0.00	25.00	0.00	0.00	25.89	0.00	0.00	0.00	0.00	50.89
527 · General Office Expense	1,385.67	1,434.25	816.65	150.81	1,217.56	1,506.32	621.02	1,041.18	853.16	562.97	48.17	0.00	9,637.76
529 · Pre-funding Retiree Benefits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
531 · Technology & Software	408.73	9.99	920.32	495.98	2,049.99	130.38	9.99	9.99	234.23	9.99	0.00	0.00	4,279.59
600 · Board of Trustees Compensa	950.00	475.00	475.00	475.00	380.00	855.00	380.00	475.00	760.00	760.00	0.00	0.00	5,985.00
601 · Trustee Expenses	457.74	65.45	95.03	0.00	73.52	329.66	(31.01)	449.36	263.44	130.72	0.00	0.00	1,833.91
602 · Accounting Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12,250.00	0.00	0.00	12,250.00
603 · Legal Fees (General)	7,630.50	7,160.50	3,131.56	2,098.00	3,296.27	3,930.00	4,876.00	2,946.00	2,566.50	975.00	0.00	0.00	38,610.33
604 · Flood Litigation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
606 · Legislative Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
607 · Dues and Assoc. Expenes	0.00	0.00	5,549.00	297.00	6,146.00	0.00	0.00	180.00	8,740.00	0.00	0.00	0.00	20,912.00
608 · Insurance Premiums	0.00	0.00	0.00	22,238.00	0.00	0.00	0.00	0.00	4,504.00	0.00	0.00	0.00	26,742.00
609 · Conference /Workshops/Sem	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
610 · Public Relations Information	0.00	0.00	0.00	0.00	0.00	2,500.00	2,175.00	0.00	12,724.00	11,703.08	0.00	0.00	29,102.08
611 · Election Expenses	0.00	0.00	0.00	0.00	0.00	1,669.00	0.00	0.00	0.00	0.00	0.00	0.00	1,669.00
612 · District Annexations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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613 - Community Services	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	1,000.00
614 - Miscellaneous Admin	2,474.74	192.90	829.15	250.20	304.78	205.70	471.45	174.71	291.87	179.95	28.95	0.00	5,404.40
617 - Investment Fees	0.00	3,506.00	0.00	0.00	0.00	0.00	0.00	3,595.00	0.00	0.00	0.00	0.00	10,685.00
618 - Property Tax	0.00	0.00	0.00	0.00	1,597.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,597.20
619 - Building Maintenance	0.00	434.38	0.00	359.98	0.00	1,525.00	0.00	0.00	0.00	0.00	0.00	0.00	2,319.36
620 - Bookkeeping Services	562.50	975.00	600.00	1,087.50	1,350.00	2,737.50	0.00	600.00	1,405.00	1,800.00	0.00	0.00	11,117.50
621 - County Assessment Fees	0.00	0.00	0.00	0.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	11.00
622 - County D/Tech Fees for DLMS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24,477.00	0.00	0.00	24,477.00
623 - Employee Morale/Wellness	302.12	(360.00)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155.98	0.00	0.00	98.10
<b>Total Administrative</b>	<b>28,931.18</b>	<b>28,490.20</b>	<b>24,904.95</b>	<b>39,054.63</b>	<b>23,389.25</b>	<b>39,663.31</b>	<b>21,206.37</b>	<b>24,230.29</b>	<b>45,356.48</b>	<b>67,544.58</b>	<b>627.12</b>	<b>0.00</b>	<b>343,398.36</b>

Special Projects Expenses	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
702 - Engineering/Survey Studies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
703 - Encroachment Remediation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
704 - Vegetation Management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
705 - Small Capital Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
707 - Levee Standards Compliance	0.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	500.00
<b>Total Special Projects</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>500.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>500.00</b>

Capital Outlay: Flood Control	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
700 - Bank Protection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
701 - Magpie Creek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
706 - Property Acquisition	7,967.75	135.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,102.82
709 - Equipment Purchase (> \$100k)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital Outlay: Flood Control</b>	<b>7,967.75</b>	<b>135.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8,102.82</b>

Capital Outlay: District Headquarters Build-Out	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
901 - Construction Management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
902 - Architect/Building Design	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
903 - General Construction Contract	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
904 - Permitting	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
905 - Legal Fees District Headquarters	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital Outlay: District Headquarters</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Income	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
120 - Benefit Assessment	0.00	29,741.83	0.00	0.00	0.00	30,057.04	739,552.85	0.00	0.00	0.00	0.00	0.00	799,351.72
122 - SAFCA CAD4	0.00	0.00	650,000.00	0.00	(5,276.00)	0.00	(48.60)	0.00	0.00	0.00	0.00	0.00	644,675.40
123 - Interest	12.11	31.65	43.45	159.97	124.12	64.09	74.66	211.05	194.44	147.97	0.00	0.00	1,063.51
124 - O&M Agreements	0.00	0.00	0.00	0.00	0.00	0.00	226,839.60	0.00	0.00	0.00	0.00	0.00	226,839.60
126 - Miscellaneous Income	612.50	0.00	0.00	0.00	0.00	0.00	3,547.50	0.00	0.00	0.00	0.00	0.00	4,160.00
<b>Total Income</b>	<b>624.61</b>	<b>29,773.48</b>	<b>650,043.45</b>	<b>159.97</b>	<b>(5,151.88)</b>	<b>30,121.13</b>	<b>969,966.01</b>	<b>211.05</b>	<b>194.44</b>	<b>147.97</b>	<b>0.00</b>	<b>0.00</b>	<b>1,676,090.23</b>

Fund Balance	Jul 16	Aug 16	Sept 16	Oct 16	Nov 16	Dec 16	Jan 17	Feb 17	Mar 17	Apr 17	May 17	Jun 17	TOTAL
District Operations Fund													
Beginning Balance	2,294,495.71	1,157,491.01	1,051,566.81	1,569,018.61	1,419,729.29	1,273,892.80	1,118,253.22	1,964,747.54	1,827,753.51	1,620,181.45	1,433,607.00	0.00	
Income	624.61	29,773.48	650,043.45	159.97	(5,151.88)	30,121.13	969,966.01	211.05	194.44	147.97	0.00	0.00	
Expenses	1,137,629.31	135,697.68	132,591.65	149,449.29	140,684.61	185,760.71	123,471.69	137,205.08	207,766.50	186,722.42	69,813.39	0.00	
Ending Balance	1,157,491.01	1,051,566.81	1,569,018.61	1,419,729.29	1,273,892.80	1,118,253.22	1,964,747.54	1,827,753.51	1,620,181.45	1,433,607.00	1,363,793.61	0.00	

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<b>Capital Outlay Reserve Fund</b>												
<b>Beginning Balance</b>	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	0.00
<b>Income</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Expenses</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ending Balance</b>	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	0.00
<b>Retiree Health Benefit Reserve Fund</b>												
<b>Beginning Balance</b>	1,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	0.00
<b>Income</b>	1,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Expenses</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ending Balance</b>	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	0.00
<b>Flood Emergency Response Reserve Fund</b>												
<b>Beginning Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00
<b>Income</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Expenses</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ending Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00
<b>Emergency Repair Reserve Fund</b>												
<b>Beginning Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00
<b>Income</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Expenses</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ending Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00
<b>Total Balance</b>	7,666,049.01	7,560,124.81	8,077,576.61	7,928,287.29	7,782,450.80	7,626,811.22	8,473,305.54	8,336,311.51	8,128,739.45	7,942,165.00	7,872,351.61	0.00









# 2016 Lower American River Streambank Erosion Monitoring Report

**January 2017**

Prepared for:  
American River Flood Control District  
&  
Sacramento Area Flood Control Agency

*Prepared by*

**MBK**   
**ENGINEERS**

455 University Avenue, Suite 100  
Sacramento, CA 95825  
916/456-4400  
916/456-0253 (fax)

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Prepared under the direction of:



Nathan J. Hershey, P.E.



Brian E. Janowiak, P.E.

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## Background

The Lower American River (LAR) is a 30-mile long watercourse that conveys regulated stormwater and snowmelt runoff within the American River Basin via Folsom Dam to its confluence with the Sacramento River. The American River Parkway is located along the LAR and provides recreational opportunities such as biking, rafting, and multi-use trails, in balance with providing valuable habitat for a wide variety of wildlife and vegetation. During a high-water event, the first line of defense in providing flood protection for the residents of Sacramento is by regulating water releases from Folsom Dam that will control the resulting increase in water surface elevations and flow velocities within the channel of the LAR. Additional flood control measures to protect the residents of Sacramento are provided by the levees that flank the LAR.

In the leveed sections of river, channel migration and erosion can create problems to flood control officials and Parkway managers. Due to the river's erosive forces, the structural integrity of levees and loss of parkway space can be threatened. Although a waterside bench is present along the majority of the levees to provide additional stability and increase the active riparian zone footprint within the Parkway, bank erosion has the potential to migrate into the structural section of a levee and become a major hazard to the levee system during a high flow, if not monitored and controlled properly. As the erosion encroaches in the structural section, the undermining effects could cause structural instability which may result in levee failure. In addition, loss of levee section could accelerate seepage through the levee to the point where levee failure may occur due to soil piping.

After the 1986 flood, several sites along the levees had experienced varying degrees of erosion. A bank protection program, developed by the Sacramento Area Flood Control Agency's (SAFCA) Lower American River Task Force, was implemented to provide embankment protection along these erosion sites between 1986 and 2004. In 2004, Ayers Associates submitted the report titled "Lower American River, Erosion Susceptibility Analysis for Infrequent Flood Events" in response to the damages sustained along the levees during the 1986 event and to support the certification efforts for FEMA accreditation. In July 2004, MBK Engineers had participated in the original waterside field investigation for the entire river reach with Ayers Associates to review additional locations along the levee where the hydraulic modeling had predicted high velocities and shear stresses. The field investigation and predictive modeling efforts in computing water flow velocities had resulted in the identification of twelve (12) sites as possible locations where potential erosion would cause significant damage to the levee.

Since 2005, the erosion evaluation for the LAR levees has been conducted on an annual basis by MBK, along with staff members from SAFCA and the local maintaining agency, the American River Flood Control District (ARFCD). Due to embankment protection measures implemented after the 1986 flood and the time elapsed without a major high water event, many of the original twelve sites during the initial study in 2004 have been re-evaluated over time and are no longer considered to be active erosion sites. Over the past several years, new erosion sites have been detected and subsequently repaired based on their potential impact to levee integrity while other non-severe sites are monitored regularly.

## Purpose

In order to observe changes indicative of active erosion and a possible problem while the problem is in its infancy rather than when the structural section of the levee is affected, a prudent levee maintenance program that includes annual monitoring of existing bank erosion should be implemented. As problems are identified, solutions can be developed in a collaborative fashion to allow the input of interested parties in levee protection. One of the tools used to evaluate erosion potential include the assessment estimated flow velocities from the most recent hydraulic model in relation to the soil material type along the bankline.

The scope of this effort is to conduct an annual inspection of the Lower American River (LAR) Federal Project levees where existing erosion had been identified in previous years and detect locations where newly formed erosion sites may have developed. One of the objectives of this erosion monitoring report is to supplement American River Flood Control District's (ARFCD) operation and maintenance plan to address erosion to ensure that the levees meet 44 CFR 65.10, paragraph (d) requirements for maintenance of certified levees. This section states:

*“Maintenance plans and criteria.* For levee systems to be recognized as providing protection from the base flood, the maintenance criteria must be as described herein. Levee systems must be maintained in accordance with an officially adopted maintenance plan, and a copy of this plan must be provided to FEMA by the owner of the levee system when recognition is being sought or when the plan for a previously recognized system is revised in any manner. All maintenance activities must be under the jurisdiction of a Federal or State agency, agency created by Federal or State law, or an agency of a community participating in the NFIP that must assume ultimate responsibility for maintenance. This plan must document the formal procedures that ensure that the stability, height, and overall integrity of the levee and its associated structures and systems are maintained. At a minimum, maintenance plans shall specify the maintenance activities to be performed, the frequency of their performance, and the person by name or title responsible for their performance.”

The scope does not include the LAR right bank levee downstream of the Natomas East Main Drainage Canal, as this levee is maintained by RD 1000. ARFCD inspects the actual levees for stability, seepage, encroachments, and erosion. The scope of this effort includes inspection of the top of the berm and levee face if the previous flood season had flood stages above the berm. In water year 2015/2016 (October 2015 – September 2016), flows along the American River were not high enough to put water on the levees. The geographic limits of the inspection are from LAR River Mile (RM) 12.0 to the confluence of the LAR and the Sacramento River as well as the Sacramento River left bank from RM 60.5 to 60.0. The Federal Project levee extends upstream of LAR RM 12.0 on the right bank to approximately RM 14.0, but is located away from the low flow channel and is not threatened by streambank erosion. In addition, the levee along the right bank between RM 2.0 and RM 5.3 is a significant distance from the low flow channel (approximately 1800 lineal feet). Erosion in the low flow channel poses no threat to the levee in this reach.

The findings contained in this report are the result of visual inspection of the levees and review of two-dimensional hydraulic modeling results. This report is the eleventh annual inspection report. The 2015 report serves as the baseline for this evaluation. Figure 1 shows the extent of the inspection and those areas not inspected.

### **Flow History for the 2015-2016 Flood Season**

Figure 2 shows the mean daily flows for the American River from October 29, 2015 through October 31, 2016. This year's inspection occurred on October 13, 2016. The maximum peak flow since the previous inspection date (October 28, 2015) was 20,200 cfs, occurring March 13-15, 2016. The peak flow of 20,200 cfs is significantly greater than the previous inspection year's peak flow of 3,760 cfs, occurring July 20, 2015.

### **Process**

#### *Site Visit*

The LAR Inspection Team conducted a site inspection by boat on October 13, 2016. The inspection team consisted of Tim Kerr (ARFCD), Richard Marck (ARFCD), Bill Pavao (ARFCD), Dan Tibbitts (SAFCA), KC Sorgen (SAFCA), Mary Maret (Sacramento County Parks), Brian Janowiak (MBK), Matt Bachman (MBK), and Andrew Reece (MBK). The monitoring process included both visual observations of the water side banks along the American River downstream of RM 12 and the Sacramento River left bank from RM 60.5L to 60.0L, as well as a review of two-dimensional hydraulic modeling results. During the inspection, the team stopped at the accessible sites to take a closer look at the existing conditions. The flow in the river on the date of inspection was approximately 1,010 cfs.

The results of the field review are summarized in Table 3. Photo documentation of the site visit is attached as Appendix A. The purpose of the field visit was to locate areas where erosion is visible due to loss of vegetation, apparent unstable bank lines, bare unconsolidated soil, and/or human activity. The boat survey began at approximately RM 12.0 (Gristmill Park) and proceeded downstream to the confluence with the Sacramento River. Due to the relatively low flows in the river, the inspection was performed by drift boats as well as a 10-foot aluminum jon boat. The jon boat, deployed by MBK, and one of the drift boats were both equipped with a small outboard motor and were used to inspect sites that required upstream navigation. These sites included RM 10.8R on the American River, as well as RM 60.3L and RM 60.1L on the Sacramento River. No new erosion sites were identified during the inspection. The locations of the sites inspected are shown on Figure 1.

#### *Review of 2-D Hydraulic Modeling*

The second task in the process was to review two-dimensional hydraulic analyses at flows of 115,000 cfs and 145,000 cfs. One hundred fifteen thousand (115,000) cfs is the objective release from Folsom Dam and 145,000 cfs is the FEMA "Base Flood" flow (1/100 Annual Exceedence



Probability flood event). The “Lower American River, Erosion Susceptibility Analysis for Infrequent Flood Events” (Ayres, July 9, 2004) was reviewed to identify additional reaches that may be of concern that were not obvious during the site visit. The 115,000 cfs and 145,000 cfs velocity contour plates are included as Appendix B. Velocities at the sites observed during the site visit are shown in Table 3.

Velocity information from the 2-D model has been evaluated for the following reaches that were defined by floodway width to evaluate the potential for systemic erosion problems. The following table provides a summary of the modeled velocities for each reach.

**Table 1 – Lower American River Modeled Velocity Summary**

Reach	Flow = 115,000 cfs			Flow = 145,000 cfs		
	Velocity (Main Channel)	Velocity (Streambank)	Velocity (Levee)	Velocity (Main Channel)	Velocity (Streambank)	Velocity (Levee)
LAR RM 0 to 6	5-8 fps	1-5 fps	1-4 fps	7.5-9 fps	4-7.5 fps	1-5 fps
LAR RM 6 to 11	6-10 fps	4-6 fps	1-6 fps	7.5-12 fps	5-7.5 fps	1-7 fps
LAR RM 11 to 14	5-7.5 fps	3-5 fps	1-5 fps	5-8 fps	3-5 fps	1-6 fps

#### LAR RM 0 to RM 6

The reach downstream of LAR RM 6 is generally characterized by a wide berm on the right bank and a narrow or no berm on the left bank. As discussed above, erosion in the active river channel is not a threat to the right bank levee between RM 2.0 and RM 5.3. For a flow of 115,000 cfs, velocities are generally 5-8 fps in the main channel, 1-5 fps at the streambanks, and 1-4 fps at the levee. Velocities on the left bank for a flow of 115,000 cfs tend to be greater than bare soil or vegetation can handle without experiencing erosion. The following table summarizes suggested maximum permissible mean channel velocities.

**Table 2 – Suggested Maximum Channel Water Velocities<sup>1</sup>**

Channel Material	Mean Channel Velocity (fps)
Fine Sand	2
Course Sand	4
Sandy Silt	2
Silt Clay	3.5
Clay	6
Soils with good vegetative cover	6-7
Poor rock (usually sedimentary)	10
Good rock (usually igneous or hard metamorphic)	20

<sup>1</sup> Modified from U.S. Army Corps of Engineers EM 1110-2-1601, page 2-16.



Velocities above these ranges for the identified material would be expected to result in erosion. For a flow of 145,000 cfs, velocities are 7.5-9 fps in the main channel, 4-7.5 fps at the streambanks, and 1-5 fps at the levee. Most of the left bank in this reach has been revetted, portions of which are non-engineered and may sustain damage during high flow events.

#### LAR RM 6 to RM 11

This reach has a narrow floodway when compared to the up and downstream reaches. For a flow of 115,000 cfs, velocities are 6-10 fps in the main channel, 4-6 fps at the streambanks, and 1-6 fps at the levee. For a flow of 145,000 cfs, velocities are 7.5-12 fps in the main channel, 5-7.5 fps at the streambanks, and 1-7 fps at the levee. The rate of streambank erosion could be slowed by maintaining a dense cover of vegetation along the streambank. However, erosion will be an ongoing problem in this reach due to the high velocities and will eventually require structural measures. If vegetation is added to this reach, hydraulic modeling should be conducted to analyze the potential impact on water surface elevations.

#### LAR RM 11 to RM 14

This reach has a wide floodplain and the levees are relatively small and located away from the main channel. For a flow of 115,000 cfs, velocities are 5-7.5 fps in the main channel, 3-5 fps at the streambanks, and 1-5 fps at the levee. For a flow of 145,000 cfs, velocities are 5-8 fps in the main channel, 3-5 fps at the streambanks, and 1-6 fps at the levee. The 2-D model upstream boundary is approximately RM 14.

#### Sacramento River RM 60.0 to RM 60.5

This reach has a wide river channel with a floodplain on the right bank. The left bank levee is maintained by ARFCD and transitions to the streambank with little to no berm. Velocities along the left bank levee are generally less than 3 fps (with the Sacramento Weir open). The 2-D model downstream boundary is RM 59.4.

### **Conclusions**

The site inspection observed nine sites (Table 3) that are actively eroding or show signs of past erosion within the jurisdiction of the ARFCD. Three of these nine sites, RM 10.5L (downstream portion of site), RM 9.8L (upstream portion of the site), and RM 2.7L have been either partially or fully repaired. One of these sites, Sacramento River RM 60.1L, has been fully repaired by the District. Discussion of site specific details involving the repairs for the individual sites is summarized below. Based on visual observations during the inspection, it appears that erosion has not advanced into the 3:1 waterside levee cross section. All sites will be continually monitored by ARFCD. Other parkway interests can use this information to decide if there are partnering opportunities to address erosion at an early stage to prevent the risk of erosion progressing into the standard levee section and preserving limited parkway lands. Additional potential erosion sites were not identified as a result of the review of the 2-D hydraulic model results at a flow of 115,000 cfs or 145,000 cfs.

The following is a summary of the sites and a description of potential actions that could be taken:

LAR RM 10.9 Left – Erosion at this site does not threaten the integrity of the levee due to the width of the berm. Planting woody vegetation on the bank would reduce the rate of erosion. However, recreational use at the site may dictate a more structural fix. Recreational use at the site appears to have slightly degraded portions of the upper bank since the 2015 inspection. Minor erosion was noted in 2010 in a confined area along the channel bank, likely due to animal activity and surface drainage. This erosion does not appear to have progressed significantly. Cross section surveys are an option that would enable the district to monitor the progression of the erosion at this site.

LAR RM 10.8 Right – Erosion at this site does not threaten the integrity of the levee due to the width of the berm. Planting woody vegetation on the bank would reduce the rate of erosion. However, recreational use at the site may dictate a more structural fix. Minimal differences in site characteristics were observed as compared to the 2015 inspection.

LAR RM 10.5 Left – Erosion at this site does not appear to threaten the integrity of the levee due to the width of the berm. However, the soils at the site appear to be non-cohesive soils that would likely erode rapidly during a high water event, especially if the vegetative cover continues to degrade due to high recreational use. Planting woody vegetation on the bank would reduce the rate of erosion. Recreational use at the site may dictate a more structural fix. Erosion at the upstream portion of the site does not appear to have progressed significantly since the 2015 inspection. A 20 foot section along the downstream end of the site shows signs of minor erosion. Since the 2015 inspection, additional rodent burrows have been observed along the steep middle and upper bank. If erosion continues to progress at the site, a more structural fix will be required. Repair of the site will need to accommodate intense recreational use.

The downstream portion of the site has been repaired by the US Army Corps of Engineers as part of the Sacramento River Bank Protection Program. Repairs included placing riprap along the bank as well as planting vegetation.

LAR RM 9.8 Left – This site has been repaired by the US Army Corps of Engineers as part of the Sacramento River Bank Protection Program. Construction activities included repairing the eroded sections of the site by placing riprap along the bank as well as planting vegetation.

The west end of this site (downstream, formerly known as Site 10.0L) was previously repaired and woody vegetation was planted on the waterside edge of the berm. This planting appears to have reduced the rate of erosion as it has not progressed significantly since 2015. Observations indicate the cobble and the finer particles on the surface of the berm continue to erode, exposing some of the underlying riprap. This appears to be the result from primarily pedestrian and recreational activity. However, this condition is largely aesthetic and the structural component appears to be intact. The repair appears to be holding up relatively well, however it is highly correlated to the amount of pedestrian use at the site. The District has historically performed minor maintenance in the area to stabilize the pedestrian path.

LAR RM 8.8 Right – This site was previously studied by the Sacramento River Bank Protection

Project as the “Site 5 extension” (Lower American River – Site 5 Extension, US Army Corps of Engineers, prepared by HDR, March 2002). Consideration should be given to repairing the scalloping at this site to reduce the rate of erosion. Consideration should also be given to taking action over the entire reach to preserve the berm, equestrian trail, and existing mature vegetation. No visible progression of erosion or undercutting on vertical banks was observed during the inspection, and it should be noted that the vegetation cover appears to be similar to the 2015 inspection. Due to the high level of recreational activity at this site, a cross section survey of the entire reach was performed by MBK in March 2013. Subsequent surveys could be performed as needed to monitor the rate of erosion and degradation of the bank.

LAR RM 7.5 Right – Erosion at this site does not threaten the integrity of the levee due to the width of the berm. Planting woody vegetation on the bank may reduce the rate of erosion and should be considered. The width of the berm is substantial (greater than 100 feet) at this site. However, the apparent erodability of the exposed soils could lead to significant erosion during a high flow event, although it is not anticipated to erode the entire berm in one flood event. Armoring the bank with biotechnical measures such as brush mattress, willow waddles or brush boxes (all supplemented with plantings) should be considered to preserve the berm and bike trail. Erosion at this site does not appear to have progressed since the 2015 inspection. Vegetative cover also appears to be similar to 2015.

LAR RM 2.7 Left – This site has been partially repaired by the Army Corps of Engineers under the Sacramento River Bank Protection Program. As previously noted, it was observed that the repair efforts do not appear to encompass the entire area experiencing erosion, specifically the upstream portion of the site. Erosion at the upstream end of the site threatens the integrity of the floodwall because the streambank is steeper than 3:1. This floodwall has been previously studied by MBK (Alternatives Analysis for Replacement of the Existing Floodwall at Lower American River, River Mile 2.7, March 2007). This report concluded that a failure of the wall at or below flows of 160,000 cfs would lead to localized flooding, as shown in Figure 3, because flooding would be contained by high ground that surrounds the wall. However, so long as this floodwall is an element of the Sacramento River Flood Control Project, the integrity of the floodwall should be maintained. This site does not appear to represent an immediate threat to public safety because of high ground located behind the levee and floodwall; however, a more detailed site analysis could be performed to determine if corrective action is required.

Sacramento River RM 60.3 Left – Recreational use is frequent at this site, contributing to the degradation of the embankment. Most of the trees along the levee slope have exposed roots. In 2013, one of the larger trees caught fire and fell over. The tree is no longer on the bank, but the void created by the uprooted portion of the tree is on the upper bank and the area should still be monitored to identify additional erosion or degradation, especially during and after rainfall. Overall, fill with vegetation on the upper bank is a possible solution to stabilize the bank. This site does not appear to represent an immediate threat to the levee based on the low velocities that characterize the reach; however, a more detailed site analysis could reveal that corrective action is required. The District has historically performed minor maintenance in the area to address erosion at the top of the slope. This site should continue to be monitored and maintained.

Sacramento River RM 60.1 Left – This site was repaired in October 2011. The site repair

included a riprap bench established at the waterline to protect the bank from wind generated waves and boat wakes. Fill material was placed above the riprap to repair the eroded embankment. The site was hydroseeded in an effort to minimize future erosion. The willow trees that were planted in 2013 along the rebuilt slope remain, but have continued to struggle. The original riprap and embankment repair appears to be holding up well and no further repairs are necessary at this time.

In summary, based on the annual field investigations and regular visual observations by the ARFCD staff, the primary reason for their current state of erosion can be attributed to high pedestrian traffic and steep and poorly vegetated bank slopes in areas of non-cohesive soils. There has been only one high water event since the last inspection. Such limited high flows in the channel would neither contribute to further erosion at pre-identified sites nor reveal new and detectable erosion sites. Boat traffic along the American River is limited due to shallow water depths and enforced speed limits (5 miles per hour) which minimize boat wake effects as being a possible contributor to the erosion activity. Transient camps continue to be observed at various locations along the American River. These camps are generally flat areas that are cut into the bank, which can compromise bank stability. Future erosion monitoring surveys should include the monitoring of transient camps and any other semi-permanent encroachments that could pose a risk to the stability of the river bank.

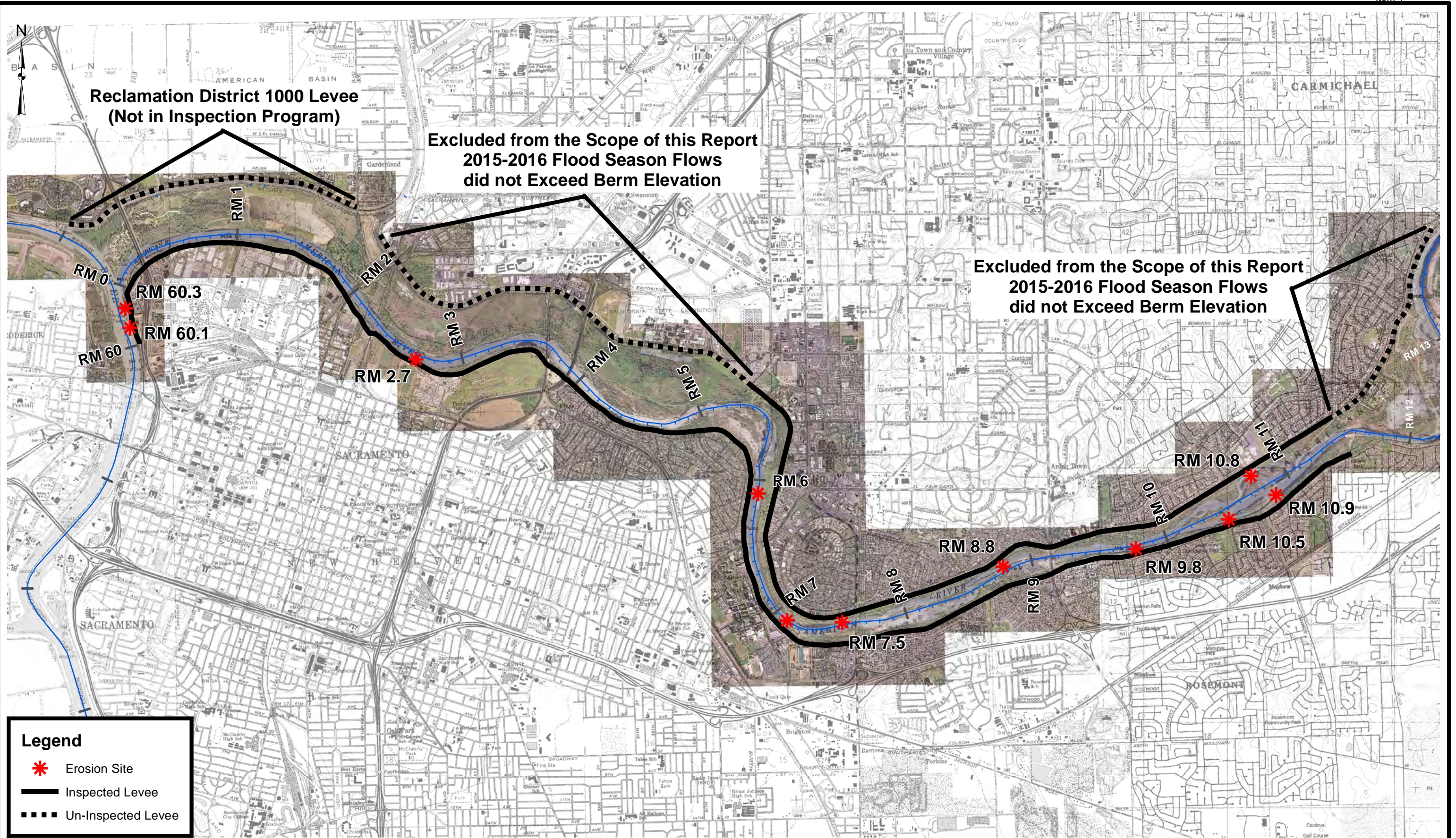
### **Recommendations**

It is recommended that the District continue to monitor the sites identified in Table 3. As site specific changes in conditions are observed, they should be documented and reported for further investigation. Inspections should continue to be performed after high water events and on an as-needed basis.

**Table 3**  
**Lower American River Erosion Monitoring**  
**Erosion Sites Identified as a Concern**  
**January 2017**

Site	Length	Year Identified	Conditions	Modeled Velocity	Modeled Velocity	Recreational Setting	Potential Action
River Mile				115,000 CFS	145,000 CFS		
10.9L	150 feet	2005	Poorly vegetated bank with 280 feet from channel to levee. Some minor erosion was first noted in 2010 in a confined area along the channel bank, likely a combination of animal activity and surface drainage. This erosion does not appear to have progressed significantly over the past several years. Minimal degradation observed along the upper bank since 2015 inspection.	1-3 fps	3-4 fps	Self-maintained walking trails at top of bank.	Establish woody vegetation thicket on bank or other biotechnical measures such as brush mattress, willow waddles or brush boxes (all supplemented with plantings), especially along waterside toe.
10.8R	120 feet	2005	Minimal differences in site characteristics as compared to 2015 based on field inspection. Poorly vegetated, undercut bank with 175-foot berm to levee. Signs of recreational use are apparent at the site.	1-3 fps	1-3 fps	50 feet to Equestrian Trail and 85 feet to Bike Trail.	Establish woody vegetation thicket on bank or other biotechnical measures such as brush mattress, willow waddles or brush boxes (all supplemented with plantings), especially along waterside toe.
10.5L	150 feet	2006	Poorly vegetated bank with non-cohesive soils and heavy recreational use. Upstream portion of site has not degraded significantly since 2015 inspection. Small section (20 feet) along downstream end of site shows signs of minor erosion. Several rodent burrows were observed in the steep upper and middle bank. Downstream reach has been repaired by the Army Corps of Engineers under the Sacramento River Bank Protection Program.	1-3 fps	2-4 fps	Adjacent to Equestrian Trail and foot path.	Repair of the site will need to integrate recreational use. Due to the challenges with repairs at RM 10.0 (see 2006 report), vegetation is not likely to be successful due to the intense recreational use. Cobbles with vegetation or other biotechnical measures such as brush mattress, willow waddles or brush boxes (all supplemented with plantings) are a possible solution. The downstream reach has been repaired as part of the Sacramento River Bank Protection Project, also known as the Sac Bank Program.
9.8L	1150 feet	2005	Erosion has historically occurred due to high pedestrian access / recreational use, however it does not appear to have progressed significantly since 2015. The upstream reach has been repaired by the Army Corps of Engineers under the Sacramento River Bank Protection Program.	4-6 fps	5-7 fps	65 feet to levee maintenance road	The upstream reach has been repaired as part of the Sacramento River Bank Protection Project, also known as the Sac Bank Program. The downstream reach was previously repaired and appears to be holding up relatively well.
8.8R	280 feet	2005	Undercut, vertical bank sloughing into river, 100 foot berm to levee. Vegetative cover is similar to 2015. Undercutting along vertical banks does not extend below water level.	3-5 fps	4-6 fps	Adjacent to Equestrian Trail ; 60 feet to Bike Trail.	Armor bank at and below low flow shoreline with rock and treat upper bank with biotechnical measures such as brush mattress, willow waddles or brush boxes (all supplemented with plantings). Cross section survey was performed by MBK in March 2013 to monitor erosion and degradation of bank.
7.5R	820 feet	2005	No visible progression of erosion compared to 2015 field inspection. Undercut, vertical bank sloughing into river, 150 foot berm to levee. Vegetative cover is similar to 2015.	3-6 fps	5-6 fps	40 feet to Equestrian Trail; 80 feet to Bike Trail.	Restore slope and armor bank.
2.7L	700 feet	2006	Site has been partially repaired by the Army Corps of Engineers under the Sacramento River Bank Protection Program. Repair efforts do not appear to encompass all areas experiencing erosion, specifically the upstream end of the site.	1-3 fps	2-4 fps	Private property, limited public access.	Extend the repair efforts further upstream to include the erosion near the existing floodwall (approximately 350 feet).
Sac River 60.3L	330 feet	2006	Site is north of the old water intake facility. Streambank above waterline is over steepened with poorly vegetated bank and non-cohesive soils. Erosion historically has migrated toward the access road on the bench. The District has historically performed minor maintenance in the area to address erosion at the top of the slope. Most trees along levee slope have exposed roots. The large tree on the upper slope that caught fire and fell towards the river in 2013 is no longer on the bank, but the void from the root wad remains on the upper bank.	>3 fps	>3 fps	Bike trail at top of bank. High recreational use.	Fill with vegetation or biotechnical measures such as brush mattress, willow waddles or brush boxes (all supplemented with plantings). Site (including void created by uprooted portion of tree) should continue to be monitored and maintained, especially during and after rainfall.
Sac River 60.1L	100 feet	2006	Site is between the old water intake facility and the new intake facility. Site was repaired in October 2011. Repaired levee appears to be in good condition.	>3 fps	>3 fps	Bike trail at top of bank. High recreational use.	In October 2011, a riprap bench was established at the waterline to protect the bank from wind generated waves and boat wakes. Fill material was placed above the riprap to repair the eroded embankment. The site was hydroseeded in an effort to minimize future erosion. Aside from struggling willows that were planted in 2013, repair efforts have been successful and levee appears to be in good condition.







# **Appendix A**

## **Photos**



Photograph 1 – LAR RM 10.9L (1)



Photograph 2 – LAR RM 10.9L (2)





Photograph 3 – LAR RM 10.9L (3)



Photograph 4 – LAR RM 10.9L (4)





**Photograph 5 – LAR RM 10.8R**



**Photograph 6 – LAR RM 10.5L (1)**





**Photograph 7 – LAR RM 10.5L (2)**



**Photograph 8 – LAR RM 10.5L (3)**





**Photograph 9 – LAR RM 10.5L (4)**



**Photograph 10 – LAR RM 10.5L (5)**





**Photograph 11 – LAR RM 9.8L (1)**



**Photograph 12 – LAR RM 9.8L (2)**





**Photograph 13 – LAR RM 9.8L (3)**



**Photograph 14 – LAR RM 8.8R (1)**





**Photograph 15 – LAR RM 8.8R (2)**



**Photograph 16 - LAR RM 7.5R (1)**





**Photograph 17 - LAR RM 7.5R (2)**



**Photograph 18 - LAR RM 7.5R (3)**





**Photograph 19 - LAR RM 7.5R (4)**



**Photograph 20 - LAR RM 2.7L (1), upstream of repair site**





**Photograph 21 - LAR RM 2.7L (2), repair site**



**Photograph 22 - SR RM 60.3L (1)**





**Photograph 23 - SR RM 60.3L (2)**



**Photograph 24 - SR RM 60.3L (3)**





**Photograph 25 - SR RM 60.3L (4)**



**Photograph 26 - SR RM 60.1L (1)**





**Photograph 27 - SR RM 60.1L (2)**



**Photograph 28 - SR RM 60.1L (3)**



**Photograph 29 - SR RM 60.1L (4)**



**American River Flood Control District  
WSP Scope of Work – Assessment Services  
Staff Report**

**Discussion**

The District obtains its revenue from an assessment applied to the property tax bill for parcels within the District boundary. Until 2015, the County of Sacramento performed the necessary review and calculations to accurately place the proper ARFCD assessment on each tax bill. In 2015, the County reorganized their technology department and no longer had staff available to perform the assessment work for local districts.

In 2015, the County provided training for local districts to learn how to use their Direct Levee Management System(DLMS) and perform the necessary review and calculations to place the assessment on the tax bills. The County also began charging local districts for access to the DLMS system.

The District successfully performed this work in 2015 and in 2016. Upon replacement of the District's Office Manager in late 2016, the District no longer had the in-house knowledge to perform this work. The District needs this work to begin in July 2017 to have our assessments placed on the tax rolls in September 2017.

District staff has been in communications with the County and with WSP to find a qualified consultant to perform this service. WSP was referred to the District by the County as a qualified and competent provider of this service. WSP is also the firm currently performing assessment services for SAFCA. District staff allowed WSP to access ARFCD assessment data on DLMS so that they could provide an accurate Scope of Work to do this work on a yearly basis.

Attached please find the Scope of Work from WSP and a sample services contract to get them on board for this year's work in DLMS.

**Recommendation:**

The General Manager recommends that the Board of Trustees approve the Scope of Work and direct staff to execute a contract with WSP.



Suite 400  
2150 River Plaza Drive  
Sacramento, CA 95833

Tel.: +1 916 567-2500  
Fax: +1 916 925-3517

[www.wsp-pb.com](http://www.wsp-pb.com)

April 28, 2017

Tim Kerr  
General Manager  
American River Flood Control District  
185 Commerce Circle  
Sacramento, CA 95815

**Subject: ARFCD Assessment District Support Services**

Dear Tim:

WSP | Parsons Brinckerhoff is pleased to submit the enclosed proposal to provide Assessment District Support Services. Utilizing Sacramento County's Direct Levy Management System (DLMS), WSP | Parsons Brinckerhoff would update the American River Flood Control District (ARFCD) assessment database, calculate assessments, and submit the assessment roll to the Sacramento County Auditor/Tax Collector for inclusion on property tax bills for FY 2017-18.

Please note that effective May 10, 2017, WSP | Parsons Brinckerhoff will move forward under the name WSP. Our legal name will become WSP USA Inc. Until then, we will continue operating as WSP | Parsons Brinckerhoff, as we have since the acquisition of Parsons Brinckerhoff by WSP over two years ago.

Kind regards,

A handwritten signature in black ink that reads 'Robert Cermak'.

Robert Cermak, PE  
Senior Project Manager

# WSP USA

## AMERICAN RIVER FLOOD CONTROL DISTRICT ASSESSMENT DISTRICT ENGINEERING SERVICES SCOPE OF SERVICES

WSP USA (WSP) will provide assessment district engineering services necessary to place the American River Flood Control District (ARFCD) assessment roll on the Sacramento County property tax bills. Services include: database corrections, updating and maintenance; report generation; and assessment data transfer to Sacramento County. WSP will also respond to assessment inquiries and provide other special assessment reports. The following is a description of tasks to be performed.

### ARFCD ASSESSMENT DISTRICT

#### **TASK 110 -- ASSESSMENT ROLL**

This task provides for the development of the Assessment Roll.

- **Process New Parcels.** ARFCD Zone (A, B and C) boundary lines (as defined by current Zone classification of parcels) will be used to assign new parcels to the appropriate Zone. Each ARFCD Zone is processed in the County's Direct Levy Management System (DLMS) as a separate district.
- **Parcel Change Process.** Utilizing the County's DLMS database, update the assessment database to reflect all parcel changes (parcel splits, parcel combinations, new parcels, etc.) that are reflected in the Sacramento County Assessor's updates.
- **Automated Parcel Match and Parcel Zoning Code and Owner Code Match Process.** Utilizing the County's DLMS database, compare parcels from Sacramento County's database to the ARFCD assessment database. This process identifies all parcels found on the County Assessor's database within the ARFCD Assessment District boundaries but not on the ARFCD assessment database and parcels on the ARFCD database that are not valid parcels on the Sacramento County database. Compare County Assessor's use codes, zoning code and owner codes found in Sacramento County's database against those found within the ARFCD assessment database. If the County Assessor's use codes, zoning codes or owner codes do not match, ARFCD's database will be updated to reflect the County Assessor's use code, zoning code and owner code for that parcel.
- **Analyze Changes, Exceptions and Errors.** Within DLMS, run RECALC program and generate the Quality Control Reports. Review all identified error flags. Evaluate them in order to determine the correct parcel characteristic.
- **Update ARFCD Database.** Update ARFCD's database to account for all known changes, additions, deletions and corrections identified in the previous subtasks. Updates will occur in June and July, 2017. All required changes and updates necessitated by the review and match processes noted above will be completed by August 2017. These updates will include:

## WSP USA

- A. Parcel changes (splits, combinations, and new parcels) including adding any new parcel numbers and deleting any old parcels.
  - B. Error corrections.
  - C. Parcel characteristic changes (County Assessor's use code, zoning code, owner code, and levied acreage).
- **Calculate Assessments.** Using the ARFCD assessment rate by Zone, calculate the actual assessments and produce the Draft Assessment Roll.
  - **Produce Assessment Roll in Acceptable Format for Data Transfer to Sacramento County Auditor/Tax Collector.** Calculate the final assessments for the ARFCD assessments and submit to the Auditor/Tax Collector for Sacramento County by their deadline (assumed third week in August 2017).

Produce the final copy of the ARFCD Assessments by September 2017.

It is assumed the assessment district identification number and format of assessment data to be used by Sacramento County tax billing systems will be provided by the ARFCD or the County to WSP at least 30 days prior to the deadline for submittal to the County.

- **Respond to County's Reject Match Process.** Review and make corrections as may be necessary to the final ARFCD Assessment Roll after Sacramento County has made a comparison with its database.

### TASK 120 -- RESPOND TO ASSESSMENT INQUIRIES

WSP will assist ARFCD staff in responding to individual owner inquiries in a timely manner on an as needed basis. It is assumed that inquiries will be limited to no more than 10. An inquiry may involve one or more parcels. An individual inquiry that involves multiple parcels in the same geographic area will be treated as a single inquiry.

### TASK 130 -- GIS Support

Utilize the Geographic Information System (GIS) data available for the ARFCD Assessment District Zones from the County of Sacramento. Process the GIS data to establish links with ARFCD Assessment District databases. Utilize the GIS linkage to develop maps and other graphic displays of Assessment District characteristics such as external boundary and Zones.

### TASK 150 -- MEETINGS AND SPECIAL REPORTS

- **Meetings.** WSP will periodically meet with ARFCD to discuss the progress and status of the ARFCD assessment rolls. A maximum of 2 meetings is assumed.
- **Provide Reports.** WSP will provide ARFCD with miscellaneous special data reports as requested by ARFCD. The number of reports is assumed limited to 2.

### TASK 160 -- PROJECT MANAGEMENT AND PROJECT ADMINISTRATION

## WSP USA

WSP will provide ongoing project management and administration to support the project. WSP's project accounting system will be updated to track project costs. Invoices will be submitted to ARFCD monthly showing the labor and direct costs for the billing period.

### **ASSUMPTIONS**

1. The assessments will be calculated using the "ARFCD Assessment Calculation Notes" provided by ARFCD.
2. Land use will be determined for assessment calculation purposes using the zoning code in DLMS. The specific zoning codes for residential, commercial and agricultural land uses will be interpreted from the existing ARFCD database.
3. Public owned parcels with owner code of 10 will be exempt.
4. Unusable parcels, defined by County Assessor's land use code beginning with "M", will be exempt.
5. For parcels greater than 5 acres, the levy acreage will be calculated according to the formula in Assumption number 1 above unless otherwise directed by ARFCD.
6. ARFCD will provide WSP with copies of all forms and documents submitted by ARFCD to the County as part of FY 2016-17 assessment roll submittal.
7. ARFCD will provide copies of ARFCD Board Resolution authorizing levy of FY 2017-18 assessments. Resolution will contain statements required by County (for example, compliance with Proposition 218).

WSP USA

### Cost Proposal ARFCD Assessment District Engineering Services

**Summary**

Title	Project Manager	Sr Planner	Database Analyst	Sr Engr	Asst Engr	Project Admin III	Total Hours	Total Cost
Grade	P14	P10	T9	P10	P7	P9		
Rate/Hour	\$302	\$114	\$119	\$160	\$84	\$109		
Task Description								
<b>ARFCD Assessments District</b>								
110 - Assessment Roll	28		162				190	\$27,734
120 - Respond to Assessment Inquiries			8				8	\$952
130 - GIS Support		20					20	\$2,280
150 - Meetings and Special Reports	4		8				12	\$2,160
160 - Project Mgmt & Project Admin	4					12	16	\$2,516
<b>Subtotal Labor</b>	<b>36</b>	<b>20</b>	<b>178</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>246</b>	<b>\$35,642</b>

Subtotal	\$0
Fee on Subs 5.0%	\$0
<b>Subtotal Subconsultants</b>	<b>\$0</b>

Travel Costs	\$40
Reproduction	\$300
Delivery Services & Misc	\$40
Subtotal Direct Expenses	\$380
Fee on Direct Expenses (5%)	\$19
<b>Subtotal Direct Expenses</b>	<b>\$399</b>

**TOTAL** **\$36,000**



**CONSULTANT AGREEMENT  
WSP USA Inc. AND AMERICAN RIVER FLOOD CONTROL DISTRICT**

Effective Date: May 19, 2017

This document constitutes Consultant Agreement No. \_\_\_\_\_ ("Consultant Agreement") between American River Flood Control District ("Client") and WSP USA Inc. ("Consultant"), to provide professional consultant services to the Client for the Assessment District Support Services Project as described herein.

Consultant is authorized by Client pursuant to this Consultant Agreement which is effective as of the above mentioned date, to provide professional services with regard to the referenced project, as specified in Exhibit C, which is Consultant's proposal and/or scope of work for the Project (the "Services"). Unless terminated or extended, this Agreement shall expire on December 31, 2017. Upon the mutual agreement of the Parties prior to expiration of the term, the term of this Agreement may be extended, with an agreed-upon increase to the compensation amount.

It is mutually agreed that Consultant will be compensated as shown in Exhibit D, which is Consultant's price proposal to Client for the Project.

Before Consultant begins Services, the Client shall receive a copy of a properly completed insurance certificate(s) showing the referenced Consultant Agreement Number, the Project Name and insurance limits and terms that meet the conditions of this Consultant Agreement, all as shown in Exhibit A.

This document accurately states the agreement between Consultant and Client for the Services. This is an integrated Agreement composed of this Signatory page and Exhibits A, B, C and D and supersedes and replaces any and all terms and conditions of any prior or contemporaneous agreements, communications, arrangements, negotiations or representations, written or oral, with respect to the Services to be provided by the Consultant.

ACCEPTED AND AGREED by the Parties' Authorized Representatives:

WSP USA Inc.

By: \_\_\_\_\_  
Name:  
Title:

By: \_\_\_\_\_  
Name:  
Title:

- Exhibit A- Insurance
- Exhibit B- General Terms and Conditions
- Exhibit C- Scope of Services
- Exhibit D- Compensation

## EXHIBIT A

### 1. INSURANCE

a. The Consultant shall effect and maintain the following insurance coverages, at its own cost and expense:

1.) Worker's Compensation and Employer's Liability Insurance coverage to include all statutory Worker's Compensation benefits to the employees of Consultant who may sustain work-related injuries, death or diseases. Such insurance shall comply with the statutory requirements of the state in which the work is being performed.

2.) Commercial General Liability Insurance coverage with Comprehensive Broad Form Endorsement to include Consultant's liability for death, bodily injury, advertising liability and property damage to third parties resulting from Consultant's activities, with combined single effective and available amount of One Million Dollars (\$1,000,000.00) per occurrence.

3.) Automobile Liability Insurance coverage to include Consultant's liability for death, bodily injury and property damage resulting from Consultant's activities covering use of owned, hired and non-owned vehicles, with combined single effective and available amount of One Million Dollars (\$1,000,000.00) per occurrence.

4.) Professional Liability Insurance coverage with effective and available amount of One Million Dollars (\$1,000,000.00) per claim and in annual aggregate.

b. The Consultant shall furnish the Client with certificates of insurance showing that the Consultant has complied with this Article. Thirty (30) days written notification of cancellation or non-renewal of the policies will be given to the Client. Insurance certificates will be provided annually during the term of the Consultant Agreement, and shall restate the effective value of the coverage provided. Renewal certificates are due to Client thirty (30) days prior to expiration of the current certificate.

### 2. INDEMNITY, CONSEQUENTIAL DAMAGES

The Consultant shall indemnify Client from and against any and all claims, suits, actions, judgments, demands, losses, costs, expenses, damages, and liability to the extent caused by the negligent acts, errors, or omissions of the Consultant, its officers, or employees in the performance of Services under this Agreement, however, the Consultant does not assume any risk of damages to property that is incorporated in, or shall be incorporated in, or is located at the Project site which is not within the possession of the Consultant or under the Consultant's direction or control.

To the fullest extent permitted by law, neither party shall be liable to the other, for any consequential, incidental, special, exemplary, or indirect damages whatsoever and however caused and on any theory of liability arising from the Services provided hereunder including but not limited to claims for loss of profits or revenue

### 3. LIMITATION OF LIABILITY

**Client and Consultant have discussed the risks and rewards associated with this project, as well as Consultant's fee for services. Client and Consultant agree that, to the fullest extent permitted by law, Consultant and its employees' total aggregate liability to Client and any third parties, regardless of the legal theory under which liability is imposed, is limited to the amount of the total compensation actually paid to Consultant by the Client pursuant to this Agreement. This aggregate limit includes attorneys' fees' incurred or awarded under this Agreement. Client further agrees to notify any contractors or subcontractors of this limitation and require them to abide by this limitation.**

## EXHIBIT B - GENERAL TERMS AND CONDITIONS

1. **SCHEDULE.** The Consultant agrees to provide the Services described and by the due date shown in Exhibit C.
2. **COMPENSATION.** Consultant will be promptly paid by the Client in accordance with the terms provide in Exhibit D. This Agreement will not be paid at a price higher than set forth in Exhibit D without the written consent of Client.
3. **STANDARD OF PERFORMANCE OF THE CONSULTANT.** The Consultant shall render the Services consistent with the standard of care, skill and diligence exercised by members of the same profession providing similar services under similar conditions at the locale of the Project and at the time the Services are to be performed ("Standard of Care"). The Consultant makes no warranties, express or implied, under this Agreement or otherwise, in connection with its Services.
4. **INDEPENDENT CONTRACTOR.** The Consultant is an independent contractor which has entered into an agreement with Client to provide Services and/or Products to Client and is not in a joint venture, partnership, agent-principal or employer-employee relationship with Client. The Consultant's personnel shall not be employees of, nor have any contractual relationship with Client. The Consultant, consistent with its status as an independent contractor, further agrees that it or its personnel will not hold themselves out as, nor claim to be, officers, agents, representatives or employees of Client.
5. **CHOICE OF LAW AND VENUE.** This Agreement, including but not limited to, its validity, interpretation and performance, and remedies for contract breach or any other claims, shall be governed by and construed in accordance with the laws of the state where the project is located.
6. **DISPUTES.** If a dispute arises out of or relates to this agreement, or the breach thereof, and if the dispute cannot be settled through negotiation, the parties agree, prior to proceeding to litigation, first to try in good faith to settle the dispute by mediation. The venue for any mediation and litigation under this agreement shall be in the County in which the Project is located.
7. **COMPLIANCE WITH THE LAW.** In its professional judgment, Consultant agrees to comply with all federal, state and local laws, rules, regulations, standards, ordinances and administrative codes applicable to the provision of Services, the delivery of Products, the Project site, and jurisdictions in which the Consultant conducts its business. In the event of a change in laws, regulations, et al., of which the Consultant becomes aware and which the Consultant believes affects Services and/or Products, the Consultant shall inform Client of the change and its impact on Services and/ or Products already complete or to be completed, fees and costs involved, and scheduling. Notwithstanding the foregoing, this provision shall not be construed for any purpose as to establish a standard of care for the Consultant's performance under this Agreement.
8. **NON-DISCRIMINATION.** It is the policy of Client to eliminate and avoid discrimination because of race, color, religion, age, sex, national origin, ancestry or physical disability including blindness. All Consultants providing Services or delivering Products to Client are required to provide employment, training, compensation and other conditions of employment without regard to race, color, religion, age, sex, national origin, ancestry or physical disability including blindness. Violation of this provision will be grounds for suspension, termination or cancellation of this Agreement in whole or part.
9. **SAFETY.** The Consultant shall not be responsible for the means, methods, techniques, sequences or procedures of construction utilized by the construction contractors. Under no circumstances shall the Consultant be responsible for initiating, maintaining, managing or supervising the safety precautions or programs of the construction contractor or its employees, agents, representatives and subcontractors, in connection with their work
10. **TERMINATION.** This Agreement may be terminated by either party upon thirty (30) days written notice to the other party. Should the Consultant not meet the material requirements of this Agreement, the Client may terminate the Services upon 30 days written notice and reasonable opportunity to cure the alleged default. In the case of termination for convenience, Consultant will be compensated its reasonable termination costs. In the case of either termination for convenience or default, Consultant will be paid for all services performed pursuant to this Agreement, up to the date of termination. In no event shall Consultant be obligated to provide drawings, designs, or other documents to Client after notification of termination until full payment for Consultant's services has been received.
11. **NO THIRD PARTY BENEFICIARIES.** It is expressly understood and agreed that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties hereto, and nothing contained in this Agreement shall give or allow any such claim or right of action by any other or third person or entity on such Agreement. It is the express intention of the Parties hereto

that any person or entity, other than the Parties to this Agreement, receiving services or benefits under this Agreement shall be deemed to be incidental beneficiaries only.

**12. ANTI-CORRUPTION.** The Parties shall conduct themselves in accordance with high ethical standards and in compliance with all applicable laws, including without limitation local and international laws prohibiting bribery and other forms of corruption. Each Party undertakes that it (including its respective officers, directors, employees and agents) will not directly or indirectly through any third party or person pay, give, offer, promise or authorize payment of, any monies or anything of value to any official for the purpose of improperly incentivizing or rewarding favorable treatment or advantage in connection with the Proposals, the Services or the Project. For these purpose, "official" includes any official, agent, or employee, or the close relative of any official, agent, or employee, of (i) any level of the Government of the Country where the Project is located (the Government), any department, agency, or any entity that is wholly owned or controlled by the Government, any international public organization, any recognized political party in the Country where the Project is located, any candidate for potential officer in the Country where the Project is located, or (ii) in the case of private sector work, the Project owner or any other private client.

**13. OWNERSHIP OF DOCUMENTS.** The Parties hereto agree that Consultant shall retain ownership and possession of all drawings, specifications, and other documents when its services have been completed and fully compensated. The Client will be provided one set of reproducible drawings, specifications, and other documents so furnished and they shall not be reused either for additional services on the Project to be done by others, or on other projects, without the prior written consent of Consultant. Such consent shall stipulate what, if any, additional compensation shall be paid to Consultant for such reuse of documents by the Client. In no event shall the receipt of such additional compensation operate as a waiver of Consultant's rights under this Article.



**Exhibit C**  
**Scope of Services**

## Exhibit D

### Compensation

#### 1. Compensation

a. For the performance of the Scope of Services, Client shall compensate the Consultant at the hourly rates ("Rates") shown in Exhibit D, for each hour (or portion thereof) that Services are performed, plus ODCs, up to the not-to-exceed amount ("NTE") shown herein which shall constitute Consultant's Total Compensation.

b. The specified Rates are inclusive of all direct and indirect costs associated with the performance of Services, including, but not limited to, direct labor, overhead, fringe benefits, home office support, and operating margin ("Profit"), unless otherwise specified.

c. Client will reimburse Consultant for its other direct costs ("ODCs") as follows:

1. Reprographics and delivery.
2. Incidental travel expenses.

d. The NTE Amount for this Agreement, inclusive of the labor Rates and ODCs, is \$36,000, which will not be exceeded without the written consent of the Client.

#### 2. Payment Terms

a. The Consultant shall prepare at the end of each four (4) week period an invoice showing the authorized hours Services were performed and corresponding Rates pursuant to the schedule of Services.

1. Invoices shall be in a form acceptable to Client.
2. Invoices for any approved direct expenses shall be taken from books of account kept by the Consultant, and the Consultant shall maintain and have available copies of payroll distribution, receipts, bills, and other documents required by the Client to verify such direct expenses.
3. Payment of the invoices shall be due within thirty (30) days of receipt by Client.

## General Manager's Meeting Summary – April 2017

**4/5: SAFCA North Sacramento Streams Pre-Construction Kick-off meeting.** I attended this meeting to hear discussions between SAFCA's design and construction management team with the contractor and their subcontractors. The group discussed contract submittals and the project schedule. The contract is being implemented over two construction seasons.

**4/6: American River Flood Control District Board of Trustees Special meeting.** The Board met in special session to interview two candidates for the vacant Trustee position. The Board indicated they would consider the information provided during the interviews and make a selection at their next regular meeting on April 14<sup>th</sup>.

**4/7: SAFCA Meeting on the North Sac Streams OMRR&R Agreement.** I met with staff and consultants from SAFCA to begin discussions on the new Operations, Maintenance, Repair, Replacement, and Rehabilitation agreement required for the North Sacramento Streams project. The new agreement is required by the State because the State is issuing grant money to construct the project. The terms of the agreement are more stringent than previous O&M agreements.

**4/13: Regional Parks Woodlake Drainage Site Visit.** Field Supervisor Kawamura and I met with staff from Sacramento Regional Parks to visit a site of re-occurring beaver damage under one of their bike trails. The parks staff believe the high water level in the adjacent slough promotes increased beaver activity and that lowering the water level would significantly reduce the damaging activity. The group investigated a blocked culvert that is likely preventing water from properly draining from the slough.

**4/14: American River Flood Control District Board of Trustees meeting.** The Board met in regular session. The agenda items included the appointment of a new Board member, the Fiscal Year 2015-16 Draft Audit, designation of surplus equipment, and a presentation to retiring Superintendent Richard Marck.

**4/18: Lower American River Bank Protection Working Group.** I attended this working group to hear discussions on bank and levee erosion along the Lower American River. The group heard briefings from the U.S. Army Corps of Engineers on the new Folsom Reservoir Water Control Manual and from Northwest Hydraulic Consultants on LAR flow modeling.

**4/25: Streamline Website meeting.** Office Manager Chapman and I participated in this online web meeting with Streamline to learn about their new website tool for local governments. OM Chapman learned of this company during a training session with the California Special Districts Association. Streamline has a website template custom tailored for local districts that provides all the needed functions to maintain state compliance. The template also simplifies making changes to the website and posting documents.