

Report of the Colorado State Engineer Concerning Accounting of the Operations of an Offset Account in John Martin Reservoir for Colorado Pumping 2016



COLORADO

Department of Natural Resources



Submitted to the
Engineering and Operations Committees
Arkansas River Compact Administration

December 1, 2016
Report of the Colorado State Engineer
Offset Account Operations
November 1, 2015 to October 31, 2016

An Offset Account in John Martin Reservoir was authorized by the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping** dated March 17, 1997 (“Resolution”) and by the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Amended Resolution”).

This report summarizes the operations conducted using the Offset Account for the period November 1, 2015 through October 31, 2016 and has been prepared pursuant to paragraph 11 of the Amended Resolution.

At 0000 hours, November 1, 2015 the Offset Account contained 6682.89 acre-feet. From November 1, 2015 through October 31, 2016 there were deliveries to and a transfer to the Offset Account as summarized below. There were two releases from the Offset Account for delivery to Kansas during this period. The Lower Arkansas Water Management Association transferred fully consumable water to satisfy the 500 acre-feet Storage Charge prerequisite for using the account for another year on March 31, 2016. The correspondence describing this transfer and the other deliveries is included in Section 3. In order to correct an accounting error associated with the Highland Canal water right, a transfer out of the Offset Account into conservation storage was made on November 1, 2015. This transfer was for 806.59 acre-feet.

In Section 1, a monthly summary of the contents of the Offset Account is provided in Table 1. A summary of the subaccounts of the Offset Account is provided in Tables A through B.2. The outline preceding the tables in Section 1 provides an explanation of the purpose of each subaccount.

Section 2 of this report contains the daily accounting records, by month, for all subaccounts in the Offset Account.

From November 1, 2015 through October 31, 2016, there were four deliveries of water to the Offset Account in addition to the transfer for the storage charge. The transfer and four deliveries are summarized in the following table.

Source	Delivery Start Date	Delivery End Date	Amount to Offset Account (ac-ft)	Net Consumable Water (ac-ft)	Net Return Flow Water (ac-ft)
LAWMA (Article II)	March 31, 2016	March 31, 2016	575.43	500	75.43
LAWMA (Colo Spgs Utilities)	April 15, 2016	April 18, 2016	1474.02	1474.02	0.00
LAWMA (Colo Spgs Utilities)	June 22, 2016	July 7, 2016	2299.02	2299.02	0.00
LAWMA (Highland)	April 2, 2016	October 5, 2016	1048.01	1048.01	0.00
LAWMA (Keesee)	May 1, 2016	July 13, 2016	302.24	302.24	0.00
TOTALS			5698.72	5623.29	75.43

During the period referred to above, there were two releases of water from the Offset Account requested by the Kansas Chief Engineer.

Offset Account water was released from July 22, 2016 through August 7, 2016 and is summarized as follows:

Summary of Release (July 22, 2016 – August 7, 2016)
(From Calculations per Offset Agreement)

Release from Kansas Storage Charge subaccount = 455.32 acre-feet

Release from Kansas Consumable Water subaccount = 0.00 acre-feet

Release from Colorado Upstream/Downstream Consumable Water subaccounts = 1850.7 acre-feet

Release from Return Flow/Return Flow Transit Loss subaccounts = 68.82 acre-feet

Total quantity released = 2374.84 acre-feet

Credit for Colorado Consumptive Use Water

0.7841 x 1850.7 (Consumptive Use Water) = 1451 acre-feet credit

Offset Account water was released from August 17, 2016 through August 31, 2016 and is summarized as follows:

Summary of Release (August 17, 2016 – August 31, 2016)
(From Calculations per Offset Agreement)

Release from Kansas Storage Charge subaccount = 0.00 acre-feet

Release from Kansas Consumable Water subaccount = 0.00 acre-feet

Release from Colorado Upstream/Downstream Consumable Water subaccounts = 3038.74 acre-feet

Release from Return Flow/Return Flow Transit Loss subaccounts = 0.00 acre-feet

Total quantity released = 3038.74 acre-feet

Credit for Colorado Consumptive Use Water

0.8534 x 3038.74 (Consumptive Use Water) = 2593 acre-feet credit

Credits were determined using the Muskingum routing method pursuant to the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping, Determination of Credits for Delivery of Water Released for Colorado Pumping, and Related Matters, September 29, 2005.

Section 3 of this report provides copies of the letters reporting each delivery of water to the Offset Account as required by paragraph 3 of the Amended Resolution and copies of the letters reporting each release of water from the Offset Account.

Section 4 of this report provides copies of the monthly letters reporting Colorado pumping and Offset Account operations that were prepared and submitted in accordance with paragraph 12 of the Amended Resolution.

At 2400 hours, October 31, 2016 the Offset Account contained 4430.74 acre-feet.

The Colorado State Engineer and the Kansas Chief Engineer have coordinated Offset Account operations successfully through their respective delegates throughout the year.



Steven J. Witte for
Colorado State Engineer

December 1, 2016

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Report of the Colorado State Engineer – Offset Account Operations

Section 1

Offset Account Monthly Summary Tables

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Tables A.3 (Kansas Consumable) and A.4 (Kansas Storage Charge)

Tables B.1 (Return Flow) and B.2 (Return Flow Transit Loss)

Section 2

Daily Accounting Records by Month for Offset Account and Subaccounts

Section 3

Correspondence on Deliveries to and Releases from the Offset Account

- March 28, 2016 letter to Kevin Salter regarding the Initial Notice of Offset Account Transfer for LAWMA Keesee Section II water.
- April 13, 2016 letter to Kevin Salter regarding Initial Notice of Offset Account Delivery for the LAWMA delivery of Colorado Springs Utilities water.
- May 12, 2016 letter to Kevin Salter regarding Initial Notice of Offset Account Delivery for the Keesee Ditch consumable water.
- May 12, 2016 letter to Kevin Salter regarding the Initial Notice of Offset Account Delivery for the Highland Canal consumable water.
- June 20, 2016 letter to Kevin Salter regarding Initial Notice of Offset Account Delivery for the LAWMA delivery of Colorado Springs Utilities water.
- October 28, 2016 letter to David Barfield regarding the summary of water delivered or transferred to the Offset Account from sources other than Highland Canal and Keesee Ditch.
- November 16, 2016 letter to David Barfield regarding accounting summary for releases of water from the Offset Account during 2016.
- November 17, 2016 letter to David Barfield regarding accounting summary for delivery of LAWMA's Keesee Ditch consumptive use water to the Offset Account for April – October 2016.
- November 17, 2016 letter to David Barfield regarding accounting summary for delivery of LAWMA's Highland Canal consumptive use water to the Offset Account for April – October 2016.

Section 4

Monthly Reports of Colorado Pumping and Offset Account Operations

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SECTION 1

Outline of Tables

Offset Account (Table 1)

Contains a monthly summary of the total contents of the Offset Account.

A. Consumable Water (Table A)

1. Colorado Upstream Consumable Water (Table A.1.)

Contains a monthly summary of the water stored under the provisions of paragraph 6 of the Amended Resolution.

2. Colorado Downstream Consumable Water (Table A.2.)

Contains a monthly summary of the consumptive use water stored by Colorado users which has not yet been made available to replace depletions to usable stateline flow and therefore has not been transferred to Kansas as provided for in paragraph 5.B. of the Amended Resolution.

3. Kansas Consumable Water (Table A.3.)

Contains a monthly summary of the consumptive use water that has been made available to replace depletions to usable stateline flow and has therefore been transferred as provided for in paragraph 5.B. of the Amended Resolution.

4. Kansas Storage Charge (Table A.4.)

Contains a monthly summary of the consumptive use water delivered to the Offset Account under the provisions of paragraph 9 of the Amended Resolution.

B. Return Flow Water (Table B)

1. Return Flow Water (Table B.1.)

Contains a monthly summary of the return flow water which must be either released to the river or transferred to the Kansas Consumable Water account to maintain the return flows to Colorado water users and stateline flows because of deliveries of water historically used for irrigation to the offset account.

2. Return Flow Transit Loss Water (Table B.2)

Contains a monthly summary of transit loss water necessary to deliver return flow water to Colorado water users or the stateline which must either be released with return flows or transferred to the Kansas Consumable Water account to maintain historic return flows.

JOHN MARTIN RESERVOIR

**TABLE 1
OFFSET ACCOUNT**

WATER YEAR	CONTENTS	PHYSICAL	ACCOUNT	ACCOUNT		ACCOUNT	ACCOUNT	PHYSICAL	CONTENTS
2016	BEGINNING OF	INFLOW	TRANSFER-IN	TRANSFER-IN	EVAPORATION	TRANSFER-OUT	TRANSFER-OUT	RELEASE	END OF
			(Non-Offset)	(Internal-Offset)		(Internal-Offset)			
MONTH	MONTH A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	MONTH A.F.
NOVEMBER	6682.89				51.23		806.59		5825.07
DECEMBER	5825.07				33.35				5791.72
JANUARY	5791.72				29.03				5762.69
FEBRUARY	5762.69				48.82				5713.87
MARCH	5713.87		575.43		83.38				6205.92
APRIL	6205.92	2050.91			138.64				8118.19
MAY	8118.19	360.95			195.47				8283.67
JUNE	8283.67	1613.73			243.29				9654.11
JULY	9654.11	1088.38			369.36			1653.34	8719.79
AUGUST	8719.79				257.96			3760.24	4701.59
SEPTEMBER	4701.59				137.91				4563.68
OCTOBER	4563.68				132.94				4430.74
TOTALS		5113.97	575.43	0.00	1721.38		806.59	5413.58	

OFFSET ACCOUNT

**TABLE A
CONSUMABLE WATER**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	6682.79			51.23	806.59		5824.97
DECEMBER	5824.97			33.35			5791.62
JANUARY	5791.62			29.03			5762.59
FEBRUARY	5762.59			48.82			5713.77
MARCH	5713.77		500.00	83.38			6130.39
APRIL	6130.39	2050.91		137.27			8044.03
MAY	8044.03	360.95		193.81			8211.17
JUNE	8211.17	1613.73		241.32			9583.58
JULY	9583.58	1088.38		367.65		1584.52	8719.79
AUGUST	8719.79			257.96		3760.24	4701.59
SEPTEMBER	4701.59			137.91			4563.68
OCTOBER	4563.68			132.94			4430.74
TOTALS		5113.97	500.00	1714.67	806.59	5344.76	

**TABLE B
RETURN FLOW WATER WITH TRANSIT LOSS**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	0.10			0.00			0.10
DECEMBER	0.10			0.00			0.10
JANUARY	0.10			0.00			0.10
FEBRUARY	0.10			0.00			0.10
MARCH	0.10		75.43	0.00			75.53
APRIL	75.53			1.37			74.16
MAY	74.16			1.66			72.50
JUNE	72.50			1.97			70.53
JULY	70.53			1.71		68.82	0.00
AUGUST	0.00			0.00			0.00
SEPTEMBER	0.00			0.00			0.00
OCTOBER	0.00			0.00			0.00
TOTALS		0.00	75.43	6.71	0.00	68.82	

OFFSET ACCOUNT

**TABLE A.1.
CONSUMABLE WATER
COLORADO UPSTREAM**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	0.00						0.00
DECEMBER	0.00						0.00
JANUARY	0.00						0.00
FEBRUARY	0.00						0.00
MARCH	0.00						0.00
APRIL	0.00						0.00
MAY	0.00						0.00
JUNE	0.00						0.00
JULY	0.00						0.00
AUGUST	0.00						0.00
SEPTEMBER	0.00						0.00
OCTOBER	0.00						0.00
TOTALS		0.00	0.00	0.00	0.00	0.00	

**TABLE A.2.
CONSUMABLE WATER
COLORADO DOWNSTREAM**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	6682.79			51.23	806.59		5824.97
DECEMBER	5824.97			33.35			5791.62
JANUARY	5791.62			29.03			5762.59
FEBRUARY	5762.59			48.82			5713.77
MARCH	5713.77			83.38			5630.39
APRIL	5630.39	2050.91		127.47			7553.83
MAY	7553.83	360.95		182.39			7732.39
JUNE	7732.39	1613.73		227.69			9118.43
JULY	9118.43	1088.38		357.82		1129.20	8719.79
AUGUST	8719.79			257.96		3760.24	4701.59
SEPTEMBER	4701.59			137.91			4563.68
OCTOBER	4563.68			132.94			4430.74
TOTALS		5113.97	0.00	1669.99	806.59	4889.44	

OFFSET ACCOUNT

**TABLE A.3.
CONSUMABLE WATER
KANSAS**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN Consumptive A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT Consumptive A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	0.00						0.00
DECEMBER	0.00						0.00
JANUARY	0.00						0.00
FEBRUARY	0.00						0.00
MARCH*	0.00						0.00
APRIL	0.00						0.00
MAY	0.00						0.00
JUNE	0.00						0.00
JULY	0.00						0.00
AUGUST	0.00						0.00
SEPTEMBER	0.00						0.00
OCTOBER	0.00						0.00
TOTALS		0.00	0.00	0.00	0.00	0.00	

* Note: Erroneous daily entry to this subaccount corrected on March 31, 2013 by transferring to Kansas Charge subaccount.

**TABLE A.4.
CONSUMABLE WATER
KANSAS STORAGE CHARGE**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN Consumptive A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT Consumptive A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	0.00			0.00			0.00
DECEMBER	0.00			0.00			0.00
JANUARY	0.00			0.00			0.00
FEBRUARY	0.00			0.00			0.00
MARCH	0.00		500.00	0.00			500.00
APRIL	500.00			9.80			490.20
MAY	490.20			11.42			478.78
JUNE	478.78			13.63			465.15
JULY	465.15			9.83		455.32	0.00
AUGUST	0.00			0.00			0.00
SEPTEMBER	0.00			0.00			0.00
OCTOBER	0.00			0.00			0.00
TOTALS		0.00	500.00	44.68	0.00	455.32	

OFFSET ACCOUNT

**TABLE B.1
RETURN FLOW**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	0.00			0.00			0.00
DECEMBER	0.00			0.00			0.00
JANUARY	0.00			0.00			0.00
FEBRUARY	0.00			0.00			0.00
MARCH	0.00		71.54	0.00			71.54
APRIL	71.54			1.37			70.17
MAY	70.17			1.66			68.51
JUNE	68.51			1.94			66.57
JULY	66.57			1.62		64.95	0.00
AUGUST	0.00			0.00			0.00
SEPTEMBER	0.00			0.00			0.00
OCTOBER	0.00			0.00			0.00
TOTALS		0.00	71.54	6.59	0.00	64.95	

**TABLE B.2
RETURN FLOW
TRANSIT LOSS**

WATER YEAR 2016	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	0.10			0.00			0.10
DECEMBER	0.10			0.00			0.10
JANUARY	0.10			0.00			0.10
FEBRUARY	0.10			0.00			0.10
MARCH	0.10		3.89	0.00			3.99
APRIL	3.99			0.00			3.99
MAY	3.99			0.00			3.99
JUNE	3.99			0.03			3.96
JULY	3.96			0.09		3.87	0.00
AUGUST	0.00			0.00			0.00
SEPTEMBER	0.00			0.00			0.00
OCTOBER	0.00			0.00			0.00
TOTALS		0.00	3.89	0.12	0.00	3.87	

SECTION 2

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						75.53							3.99
1	0.00	0.00	0.00	0.00	0.04	75.49	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.04	75.45	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.04	75.41	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.06	75.35	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.07	75.28	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.05	75.23	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.04	75.19	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.04	75.15	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.04	75.11	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.04	75.07	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.04	75.03	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.04	74.99	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.04	74.95	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.09	74.86	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.04	74.82	15	0.00	0.00	0.00	0.00	0.00	3.99
16	0.00	0.00	0.00	0.00	0.04	74.78	16	0.00	0.00	0.00	0.00	0.00	3.99
17	0.00	0.00	0.00	0.00	0.04	74.74	17	0.00	0.00	0.00	0.00	0.00	3.99
18	0.00	0.00	0.00	0.00	0.01	74.73	18	0.00	0.00	0.00	0.00	0.00	3.99
19	0.00	0.00	0.00	0.00	0.02	74.71	19	0.00	0.00	0.00	0.00	0.00	3.99
20	0.00	0.00	0.00	0.00	0.04	74.67	20	0.00	0.00	0.00	0.00	0.00	3.99
21	0.00	0.00	0.00	0.00	0.05	74.62	21	0.00	0.00	0.00	0.00	0.00	3.99
22	0.00	0.00	0.00	0.00	0.07	74.55	22	0.00	0.00	0.00	0.00	0.00	3.99
23	0.00	0.00	0.00	0.00	0.07	74.48	23	0.00	0.00	0.00	0.00	0.00	3.99
24	0.00	0.00	0.00	0.00	0.07	74.41	24	0.00	0.00	0.00	0.00	0.00	3.99
25	0.00	0.00	0.00	0.00	0.08	74.33	25	0.00	0.00	0.00	0.00	0.00	3.99
26	0.00	0.00	0.00	0.00	0.04	74.29	26	0.00	0.00	0.00	0.00	0.00	3.99
27	0.00	0.00	0.00	0.00	0.05	74.24	27	0.00	0.00	0.00	0.00	0.00	3.99
28	0.00	0.00	0.00	0.00	0.04	74.20	28	0.00	0.00	0.00	0.00	0.00	3.99
29	0.00	0.00	0.00	0.00	0.02	74.18	29	0.00	0.00	0.00	0.00	0.00	3.99
30	0.00	0.00	0.00	0.00	0.02	74.16	30	0.00	0.00	0.00	0.00	0.00	3.99
	0.00	0.00	0.00	0.00	1.37		0.00	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						71.54							0.00
1	0.00	0.00	0.00	0.00	0.04	71.50	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	71.46	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	71.42	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.06	71.36	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.07	71.29	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.05	71.24	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.04	71.20	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.04	71.16	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.04	71.12	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.04	71.08	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.04	71.04	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.04	71.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.04	70.96	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.09	70.87	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.04	70.83	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.04	70.79	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.04	70.75	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.01	70.74	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.02	70.72	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.04	70.68	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.05	70.63	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.07	70.56	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.07	70.49	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.07	70.42	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.08	70.34	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.04	70.30	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.05	70.25	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	70.21	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.02	70.19	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.02	70.17	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.37		0.00	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						74.16							3.99
1	0.00	0.00	0.00	0.00	0.02	74.14	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.04	74.10	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.05	74.05	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.05	74.00	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.05	73.95	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.08	73.87	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.08	73.79	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.08	73.71	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.03	73.68	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.08	73.60	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.04	73.56	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.05	73.51	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.05	73.46	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.05	73.41	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.05	73.36	15	0.00	0.00	0.00	0.00	0.00	3.99
16	0.00	0.00	0.00	0.00	0.01	73.35	16	0.00	0.00	0.00	0.00	0.00	3.99
17	0.00	0.00	0.00	0.00	0.01	73.34	17	0.00	0.00	0.00	0.00	0.00	3.99
18	0.00	0.00	0.00	0.00	0.04	73.30	18	0.00	0.00	0.00	0.00	0.00	3.99
19	0.00	0.00	0.00	0.00	0.06	73.24	19	0.00	0.00	0.00	0.00	0.00	3.99
20	0.00	0.00	0.00	0.00	0.08	73.16	20	0.00	0.00	0.00	0.00	0.00	3.99
21	0.00	0.00	0.00	0.00	0.09	73.07	21	0.00	0.00	0.00	0.00	0.00	3.99
22	0.00	0.00	0.00	0.00	0.09	72.98	22	0.00	0.00	0.00	0.00	0.00	3.99
23	0.00	0.00	0.00	0.00	0.05	72.93	23	0.00	0.00	0.00	0.00	0.00	3.99
24	0.00	0.00	0.00	0.00	0.07	72.86	24	0.00	0.00	0.00	0.00	0.00	3.99
25	0.00	0.00	0.00	0.00	0.06	72.80	25	0.00	0.00	0.00	0.00	0.00	3.99
26	0.00	0.00	0.00	0.00	0.05	72.75	26	0.00	0.00	0.00	0.00	0.00	3.99
27	0.00	0.00	0.00	0.00	0.05	72.70	27	0.00	0.00	0.00	0.00	0.00	3.99
28	0.00	0.00	0.00	0.00	0.05	72.65	28	0.00	0.00	0.00	0.00	0.00	3.99
29	0.00	0.00	0.00	0.00	0.05	72.60	29	0.00	0.00	0.00	0.00	0.00	3.99
30	0.00	0.00	0.00	0.00	0.05	72.55	30	0.00	0.00	0.00	0.00	0.00	3.99
31	0.00	0.00	0.00	0.00	0.05	72.50	31	0.00	0.00	0.00	0.00	0.00	3.99
	0.00	0.00	0.00	0.00	1.66			0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						70.17							0.00
1	0.00	0.00	0.00	0.00	0.02	70.15	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	70.11	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.05	70.06	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.05	70.01	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.05	69.96	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.08	69.88	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	69.80	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.08	69.72	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.03	69.69	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.08	69.61	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.04	69.57	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.05	69.52	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.05	69.47	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.05	69.42	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.05	69.37	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	69.36	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.01	69.35	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.04	69.31	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.06	69.25	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.08	69.17	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.09	69.08	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.09	68.99	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.05	68.94	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.07	68.87	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.06	68.81	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.05	68.76	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.05	68.71	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.05	68.66	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.05	68.61	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.05	68.56	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.05	68.51	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.66			0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						72.50							3.99
1	0.00	0.00	0.00	0.00	0.05	72.45	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.05	72.40	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.03	72.37	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.03	72.34	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.03	72.31	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.04	72.27	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.08	72.19	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.07	72.12	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.06	72.06	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.07	71.99	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.07	71.92	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.07	71.85	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.06	71.79	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.06	71.73	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.11	71.62	15	0.00	0.00	0.00	0.00	0.01	3.98
16	0.00	0.00	0.00	0.00	0.07	71.55	16	0.00	0.00	0.00	0.00	0.00	3.98
17	0.00	0.00	0.00	0.00	0.07	71.48	17	0.00	0.00	0.00	0.00	0.00	3.98
18	0.00	0.00	0.00	0.00	0.07	71.41	18	0.00	0.00	0.00	0.00	0.00	3.98
19	0.00	0.00	0.00	0.00	0.07	71.34	19	0.00	0.00	0.00	0.00	0.00	3.98
20	0.00	0.00	0.00	0.00	0.10	71.24	20	0.00	0.00	0.00	0.00	0.01	3.97
21	0.00	0.00	0.00	0.00	0.11	71.13	21	0.00	0.00	0.00	0.00	0.01	3.96
22	0.00	0.00	0.00	0.00	0.07	71.06	22	0.00	0.00	0.00	0.00	0.00	3.96
23	0.00	0.00	0.00	0.00	0.06	71.00	23	0.00	0.00	0.00	0.00	0.00	3.96
24	0.00	0.00	0.00	0.00	0.08	70.92	24	0.00	0.00	0.00	0.00	0.00	3.96
25	0.00	0.00	0.00	0.00	0.08	70.84	25	0.00	0.00	0.00	0.00	0.00	3.96
26	0.00	0.00	0.00	0.00	0.08	70.76	26	0.00	0.00	0.00	0.00	0.00	3.96
27	0.00	0.00	0.00	0.00	0.06	70.70	27	0.00	0.00	0.00	0.00	0.00	3.96
28	0.00	0.00	0.00	0.00	0.04	70.66	28	0.00	0.00	0.00	0.00	0.00	3.96
29	0.00	0.00	0.00	0.00	0.07	70.59	29	0.00	0.00	0.00	0.00	0.00	3.96
30	0.00	0.00	0.00	0.00	0.06	70.53	30	0.00	0.00	0.00	0.00	0.00	3.96
	0.00	0.00	0.00	0.00	1.97		0.00	0.00	0.00	0.00	0.00	0.03	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						68.51							0.00
1	0.00	0.00	0.00	0.00	0.05	68.46	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.05	68.41	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.03	68.38	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.03	68.35	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.03	68.32	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.04	68.28	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	68.20	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.07	68.13	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.06	68.07	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.07	68.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.07	67.93	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.07	67.86	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.06	67.80	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.06	67.74	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.10	67.64	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.07	67.57	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.07	67.50	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.07	67.43	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.07	67.36	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.09	67.27	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	67.17	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.07	67.10	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.06	67.04	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.08	66.96	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.08	66.88	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.08	66.80	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.06	66.74	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	66.70	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.07	66.63	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.06	66.57	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.94		0.00	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						70.53							3.96
1	0.00	0.00	0.00	0.00	0.04	70.49	1	0.00	0.00	0.00	0.00	0.00	3.96
2	0.00	0.00	0.00	0.00	0.04	70.45	2	0.00	0.00	0.00	0.00	0.00	3.96
3	0.00	0.00	0.00	0.00	0.04	70.41	3	0.00	0.00	0.00	0.00	0.00	3.96
4	0.00	0.00	0.00	0.00	0.04	70.37	4	0.00	0.00	0.00	0.00	0.00	3.96
5	0.00	0.00	0.00	0.00	0.06	70.31	5	0.00	0.00	0.00	0.00	0.00	3.96
6	0.00	0.00	0.00	0.00	0.10	70.21	6	0.00	0.00	0.00	0.00	0.01	3.95
7	0.00	0.00	0.00	0.00	0.11	70.10	7	0.00	0.00	0.00	0.00	0.01	3.94
8	0.00	0.00	0.00	0.00	0.07	70.03	8	0.00	0.00	0.00	0.00	0.00	3.94
9	0.00	0.00	0.00	0.00	0.07	69.96	9	0.00	0.00	0.00	0.00	0.00	3.94
10	0.00	0.00	0.00	0.00	0.07	69.89	10	0.00	0.00	0.00	0.00	0.00	3.94
11	0.00	0.00	0.00	0.00	0.11	69.78	11	0.00	0.00	0.00	0.00	0.01	3.93
12	0.00	0.00	0.00	0.00	0.05	69.73	12	0.00	0.00	0.00	0.00	0.00	3.93
13	0.00	0.00	0.00	0.00	0.07	69.66	13	0.00	0.00	0.00	0.00	0.00	3.93
14	0.00	0.00	0.00	0.00	0.07	69.59	14	0.00	0.00	0.00	0.00	0.00	3.93
15	0.00	0.00	0.00	0.00	0.10	69.49	15	0.00	0.00	0.00	0.00	0.01	3.92
16	0.00	0.00	0.00	0.00	0.10	69.39	16	0.00	0.00	0.00	0.00	0.01	3.91
17	0.00	0.00	0.00	0.00	0.10	69.29	17	0.00	0.00	0.00	0.00	0.01	3.90
18	0.00	0.00	0.00	0.00	0.07	69.22	18	0.00	0.00	0.00	0.00	0.00	3.90
19	0.00	0.00	0.00	0.00	0.12	69.10	19	0.00	0.00	0.00	0.00	0.01	3.89
20	0.00	0.00	0.00	0.00	0.11	68.99	20	0.00	0.00	0.00	0.00	0.01	3.88
21	0.00	0.00	0.00	7.92	0.10	60.97	21	0.00	0.00	0.00	0.00	0.01	3.87
22	0.00	0.00	0.00	60.90	0.07	0.00	22	0.00	0.00	0.00	3.87	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	68.82	1.71			0.00	0.00	0.00	3.87	0.09	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.57							0.00
1	0.00	0.00	0.00	0.00	0.04	66.53	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	66.49	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	66.45	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.04	66.41	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.06	66.35	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.09	66.26	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.10	66.16	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.07	66.09	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.07	66.02	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.07	65.95	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.10	65.85	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.05	65.80	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.07	65.73	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.07	65.66	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.09	65.57	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.09	65.48	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.09	65.39	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.07	65.32	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.11	65.21	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.10	65.11	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	7.92	0.09	57.10	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	57.03	0.07	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	64.95	1.62			0.00	0.00	0.00	0.00	0.00	

SECTION 3

MARCH



March 28, 2016

Kevin Salter
 Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) has initiated an action to deliver 500 acre-feet of fully consumable water to the Kansas Charge subaccount of the Offset Account for the purpose of satisfying the Storage Charge prerequisite for using the Offset Account as provided for in paragraph 9 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution"). LAWMA will transfer consumable water from LAWMA's **Keesee Article II** account to fulfill the storage charge for 2016.

Using the procedures described in the "**AGREEMENT CONCERNING THE OFFSET ACCOUNT IN JOHN MARTIN RESERVOIR FOR COLORADO PUMPING, DETERMINATION OF CREDITS FOR DELIVERY OF WATER RELEASED FOR COLORADO PUMPING, AND RELATED MATTERS**", Paragraph 6 and Attachment A, 777.61 acre-feet of water will be transferred from LAWMA's **Keesee Article II** account. The following distribution of the 777.61 acre-feet will be made in the Offset Account.

On March 31, 2016:

Kansas Charge Water Subaccount	500.00 acre-feet
Return Flow Subaccount	71.54 acre-feet
Return Flow Transit Loss Subaccount	3.89 acre-feet

Additionally on March 31, 2016, the following amounts representing the in-state return flow portion will be transferred to the Article II accounts of the various ditches:

Fort Bent Winter Stored Subaccount	23.33 acre-feet
Amity Winter Stored Subaccount	114.31 acre-feet
Lamar Winter Stored Subaccount	64.54 acre-feet

I will provide you with a formal notification, which will have all of the details concerning the transfer into the Offset Account. If you have any questions in the meantime, please call me.

Sincerely,

Bill W. Tyner, P.E.
 Assistant Division Engineer

APRIL



April 13, 2016

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with preliminary information regarding a delivery of water to the Offset Account in John Martin Reservoir per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution"). The delivery will be executed by release from Lake Meredith. The release will be made from Colorado Springs Utilities' account and will be fully consumable Arkansas River Basin water. A transit loss of 26.23% has been computed for the delivery using the Livingston Transit Loss Model from Lake Meredith to John Martin Reservoir.

- Colorado Springs Utilities (CSU) will begin a release of approximately 2,000 acre-feet at 08:00 hours on April 13, 2016 at a 336.1 cfs release rate for delivery to the Offset Account for the Lower Arkansas Water Management Association (LAWMA). The arrival time will be monitored but is projected to be on approximately April 15, 2016 around 20:00 hours and at an arrival rate of 247.9 cfs.

▪ Colorado Downstream Consumable Water Subaccount	1475 acre-feet
▪ Return Flow Subaccount	N/A
▪ Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the transfer into the Offset Account. If you have any questions in the meantime, please call me.

Sincerely,

Bill W. Tyner, P.E.
Assistant Division Engineer

MAY



May 12, 2016

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) will deliver fully consumable water associated with the Keesee Ditch water right to the Offset Account per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution"). The delivery throughout 2016 is expected to total approximately 1,411 acre-feet to be used for well augmentation pursuant to the conditions in LAWMA's decree in Water Court Case 02CW181. LAWMA will use half of the Keesee Ditch consumable water for in-state replacement. Delivery began on May 1, 2016.

Colorado Downstream Consumable Water Subaccount	Approximately 1,411 acre-feet
Return Flow Subaccount	N/A
Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the delivery into the Offset Account at the conclusion of the 2016 irrigation season. The accounting spreadsheet for the operation of the Keesee Ditch water right for 2016 will be provided electronically.

If you have any questions in the meantime, please call me.

Sincerely,

Bill W. Tyner
Assistant Division Engineer





May 12, 2016

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) will deliver fully consumable water associated with the Highland Canal water right to the Offset Account per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution") during times when John Martin Reservoir is in Conservation Storage. The delivery began on April 2, 2016.

Colorado Downstream Consumable Water Subaccount	Approximately 2,000 acre-feet
Return Flow Subaccount	N/A
Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the delivery into the Offset Account at the conclusion of the 2016 irrigation season. The accounting spreadsheet for the operation of the Highland Canal water right for 2016 will be provided electronically. Please let us know if the evaporation calculations as done by Phil Reynolds (attached) are acceptable to you.

If you have any questions in the meantime, please call me.

Sincerely,

Bill W. Tyner
Assistant Division Engineer



JUNE



June 20, 2016

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with preliminary information regarding a delivery of water to the Offset Account in John Martin Reservoir per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution"). The delivery will be executed by release from Pueblo Reservoir. The release will be made from Colorado Springs Utilities' account and will be fully consumable Arkansas River Basin water. A transit loss of 8.71% has been computed for the delivery using the Livingston Transit Loss Model from Pueblo Reservoir to John Martin Reservoir.

- Colorado Springs Utilities (CSU) will begin a release of approximately 2,500 acre-feet at 08:00 hours on June 20, 2016 at a 100 cfs release rate for delivery to the Offset Account for the Lower Arkansas Water Management Association (LAWMA). The arrival time will be monitored but is projected to be on approximately June 22, 2016 or June 23, 2016 and at an arrival rate of 91.3 cfs.

▪ Colorado Downstream Consumable Water Subaccount	2282 acre-feet
▪ Return Flow Subaccount	N/A
▪ Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the transfer into the Offset Account. If you have any questions in the meantime, please call me.

Sincerely,

Bill W. Tyner, P.E.
Assistant Division Engineer

OCTOBER



October 28, 2016

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Dear Mr. Barfield:

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** (“Resolution”) for each delivery or transfer conducted during 2016 in detail following the initial notice for each transaction originally sent to Kansas. This notice does not include the delivery of water from the Highland Canal or Keesee Ditch water rights which are summarized in separate letters to be completed in November following the end of the irrigation season.

March 31, 2016 transfer:

The Lower Arkansas Water Management Association (LAWMA) transferred **500 acre-feet** of consumable water and **75.43 acre-feet** of stateline return flow water to the Kansas Charge subaccount, Return Flow subaccount and Return Flow Transit Loss subaccount of the Offset Account on March 31, 2016. A total of **771.61 acre-feet** of water was transferred from LAWMA’s Keesee Article II account. On this date 500 acre-feet was transferred to the Kansas Charge subaccount for LAWMA to fulfill the 2016 initial storage charge. An additional 71.54 acre-feet was placed in the Return Flow subaccount, 3.89 acre-feet was placed in the Return Flow Transit Loss subaccount of the Offset Account, and, 23.33 acre-feet was transferred to the Fort Bent Article II account, 114.31 acre-feet was transferred to the Amity Article II account and 64.54 acre-feet was transferred to the Lamar Article II account representing in-state return flows. A daily accounting sheet for John Martin Reservoir for March 31st is included in Enclosure 1.

April 15-18, 2016 delivery:

The Lower Arkansas Water Management Association (LAWMA), via an agreement with Colorado Springs Utilities (CSU), delivered water from Lake Meredith to the Offset Account in John Martin Reservoir with the delivery arriving on the above dates. The delivery began at Lake Meredith at 08:00 hours on April 13, 2016 at a rate of 336.1 cfs. **2000 acre-feet** was released from Lake Meredith and a transit loss of 26.3% was applied from Lake Meredith to John Martin Reservoir. Daily accounting for John Martin Reservoir as well as a letter from Colorado Springs Utilities (CSU) identifying the source of the delivered water as consumable water from CSU’s Colorado Canal shares and Sugarloaf Reservoir/Colorado Gulch Placer Ditch rights is included in Enclosure 2. The delivery netted **1474.02 acre-feet** to the Offset Account, all of which was delivered to the Colorado Downstream Consumable subaccount.



June 22, 2016 to July 7, 2016 delivery:

The Lower Arkansas Water Management Association (LAWMA) via an agreement with Colorado Springs Utilities (CSU), delivered water from Pueblo Reservoir to the Offset Account in John Martin Reservoir with the delivery arriving on the above dates. The delivery began at Pueblo Reservoir at 12:00 hours on June 20, 2016 at a rate of 100 cfs and ended at Pueblo Reservoir at 02:30 hours on July 3, 2016 netting a release of 2500 acre-feet and a transit loss of 8.04% was applied from Pueblo Reservoir to John Martin Reservoir. Daily accounting for June 22, 2016 through July 7, 2016 for John Martin Reservoir, daily accounting of the release from Pueblo Reservoir, as well as a letter from Colorado Springs Utilities (CSU) identifying the source of the delivered water as consumable water from CSU's Colorado Canal shares and Sugarloaf Reservoir/Colorado Gulch Placer Ditch rights is included in Enclosure 3. The delivery netted **2299.02** acre-feet to the Offset Account, all of which was delivered to the Colorado Downstream Consumable subaccount.

Summary

This letter summarizes each of the three deliveries or transfers to the Offset Account during 2016, not including deliveries by the Highland Canal or Keesee Ditch. The total amount of water delivered to the Offset Account on the above dates was **4348.47** acre-feet. Total consumable water delivered was **4273.04** acre-feet and total return flow water delivered was **75.43** acre-feet.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte, P.E.

Division Engineer

Colorado Division of Water Resources

5 Enclosures

cc: Kevin Salter Dale Book Charlie DiDomenico
Dan Steuer Don Higbee Randy Hendrix Bill Tyner Rachel Zancanella

Enclosure 1

John Martin Reservoir Accounting for March 31, 2016

John Martin Daily Report

3/31/2016

Acct	Date	PrevBal.	Inflow	TIn	TOut	Rel.	Evap	Balance
Storage								
City								
City/LAMAR	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Conservation								
Summer Compact	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Winter Compact	3/31/2016	35,704.09	202.28	0.00	0.00	0.00	16.91	35,889.46
Other Water								
Winter Water Holding Account	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D67 Winter Water Storage Charge	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pool								
Permanent Pool	3/31/2016	7,765.33	0.00	0.00	0.00	0.00	3.68	7,761.65
Flood Pool	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage	Totals:	43,469.42	202.28	0.00	0.00	0.00	20.59	43,651.11

Agreement								
InterState								
Kansas Kansas	3/31/2016	82,233.95	0.00	0.00	0.00	0.00	38.94	82,195.01
Transit Loss	3/31/2016	1,687.95	0.00	0.00	0.00	0.00	0.80	1,687.15
Section III								
Amity	3/31/2016	32,052.92	0.00	0.00	0.00	675.15	15.18	31,362.59
Ft. Lyon	3/31/2016	1,904.38	0.00	0.00	0.00	0.00	0.90	1,903.48
Las Animas	3/31/2016	3,888.65	0.00	0.00	0.00	0.00	1.84	3,886.81
CO Sec II								
Prev Winter Stored Keesee	3/31/2016	440.34	0.00	0.00	0.00	0.00	0.21	440.13
Prev Winter Stored Ft Bent	3/31/2016	1,580.27	0.00	0.00	0.00	0.00	0.75	1,579.52
Prev Winter Stored Amity	3/31/2016	156.89	0.00	0.00	0.00	0.00	0.07	156.82
Prev Winter Stored Lamar	3/31/2016	2,189.86	0.00	0.00	0.00	0.00	1.04	2,188.82
Prev Winter Stored Hyde	3/31/2016	190.80	0.00	0.00	0.00	0.00	0.09	190.71
Prev Winter Stored X-Y	3/31/2016	1,154.00	0.00	0.00	0.00	0.00	0.55	1,153.45
Prev Winter Stored Buffalo	3/31/2016	980.15	0.00	0.00	0.00	0.00	0.46	979.69
Prev Winter Stored Sisson	3/31/2016	271.89	0.00	0.00	0.00	0.00	0.13	271.76
Prev Winter Stored Stubbs	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored Manvel Consu	3/31/2016	309.63	0.00	0.00	0.00	0.00	0.15	309.48
Prev Winter Stored Manvel Return	3/31/2016	128.35	0.00	0.00	0.00	0.00	0.06	128.29
CO Sec II								
Crnt Winter Stored Keesee	3/31/2016	22.95	0.00	0.00	0.00	0.00	0.01	22.94
Crnt Winter Stored Ft Bent	3/31/2016	98.80	0.00	23.33	0.00	0.00	0.05	122.08
Crnt Winter Stored Amity	3/31/2016	269.53	0.00	114.31	0.00	0.00	0.13	383.71
Crnt Winter Stored Lamar	3/31/2016	197.72	0.00	64.54	0.00	0.00	0.09	262.17
Crnt Winter Stored Hyde	3/31/2016	12.90	0.00	0.00	0.00	0.00	0.01	12.89
Crnt Winter Stored X-Y	3/31/2016	50.97	0.00	0.00	0.00	0.00	0.02	50.95
Crnt Winter Stored Buffalo	3/31/2016	84.84	0.00	0.00	0.00	0.00	0.04	84.80
Crnt Winter Stored Sisson	3/31/2016	11.93	0.00	0.00	0.00	0.00	0.01	11.92
Crnt Winter Stored Stubbs	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crnt Winter Stored Manvel Consu	3/31/2016	23.96	0.00	0.00	0.00	0.00	0.01	23.95
Crnt Winter Stored Manvel Return	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO Sec II								
Summer Stored Keesee	3/31/2016	4,899.88	0.00	0.00	777.61	0.00	2.32	4,119.95
Summer Stored Ft Bent	3/31/2016	9,608.83	0.00	0.00	0.00	63.47	4.55	9,540.81
Summer Stored Amity	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summer Stored Lamar	3/31/2016	8,004.16	0.00	0.00	0.00	0.00	3.79	8,000.37
Summer Stored Hyde	3/31/2016	2,724.55	0.00	0.00	0.00	0.00	1.29	2,723.26
Summer Stored X-Y	3/31/2016	11,249.58	0.00	0.00	0.00	0.00	5.33	11,244.25
Summer Stored Buffalo	3/31/2016	16,280.00	0.00	0.00	0.00	0.00	7.71	16,272.29
Summer Stored Sisson	3/31/2016	2,597.47	0.00	0.00	0.00	0.00	1.23	2,596.24
Summer Stored Stubbs	3/31/2016	82.07	0.00	0.00	0.00	0.00	0.04	82.03
Summer Stored Manvel Consumabl	3/31/2016	2,739.13	0.00	0.00	0.00	0.00	1.30	2,737.83
Summer Stored Manvel Return Flo	3/31/2016	2,739.12	0.00	0.00	0.00	0.00	1.30	2,737.82
Agreement	Totals:	190,868.42	0.00	202.18	777.61	738.62	90.40	189,463.97

OffsetAccount								
Consumable								
Upstream	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Downstream	3/31/2016	5,633.06	0.00	0.00	0.00	0.00	2.67	5,630.39
Kansas	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kansas Charge	3/31/2016	0.00	0.00	500.00	0.00	0.00	0.00	500.00
ReturnFlow								
Return Flow	3/31/2016	0.00	0.00	71.54	0.00	0.00	0.00	71.54
RF Transit Loss	3/31/2016	0.10	0.00	3.89	0.00	0.00	0.00	3.99
Keesee Winter	3/31/2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OffsetAccount	Totals:	5,633.16	0.00	575.43	0.00	0.00	2.67	6,205.92

Reservoir	Totals:	239,971.00	202.28	777.61	777.61	738.62	113.66	239,321.00
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Colorado Article II Summary								
Keesee	3/31/2016	5,363.17	0.00	0.00	777.61	0.00	2.54	4,583.02
Ft Bent	3/31/2016	11,287.90	0.00	23.33	0.00	63.47	5.35	11,242.41
Amity	3/31/2016	426.42	0.00	114.31	0.00	0.00	0.20	540.53
Lamar	3/31/2016	10,391.74	0.00	64.54	0.00	0.00	4.92	10,451.36
Hyde	3/31/2016	2,928.25	0.00	0.00	0.00	0.00	1.39	2,926.86
X-Y	3/31/2016	12,454.55	0.00	0.00	0.00	0.00	5.90	12,448.65
Buffalo	3/31/2016	17,344.99	0.00	0.00	0.00	0.00	8.21	17,336.78
Sisson	3/31/2016	2,881.29	0.00	0.00	0.00	0.00	1.37	2,879.92
Stubbs	3/31/2016	82.07	0.00	0.00	0.00	0.00	0.04	82.03
Manvel	3/31/2016	5,940.19	0.00	0.00	0.00	0.00	2.82	5,937.37
Colorado Article I	Totals:	69,100.57	0.00	202.18	777.61	63.47	32.74	68,428.93

Enclosure 2

John Martin Reservoir Accounting for April 2016

Lake Meredith Outlet Accounting

Letters from Colorado Springs Utilities Documenting Source

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						75.53							3.99
1	0.00	0.00	0.00	0.00	0.04	75.49	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.04	75.45	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.04	75.41	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.06	75.35	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.07	75.28	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.05	75.23	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.04	75.19	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.04	75.15	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.04	75.11	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.04	75.07	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.04	75.03	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.04	74.99	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.04	74.95	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.09	74.86	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.04	74.82	15	0.00	0.00	0.00	0.00	0.00	3.99
16	0.00	0.00	0.00	0.00	0.04	74.78	16	0.00	0.00	0.00	0.00	0.00	3.99
17	0.00	0.00	0.00	0.00	0.04	74.74	17	0.00	0.00	0.00	0.00	0.00	3.99
18	0.00	0.00	0.00	0.00	0.01	74.73	18	0.00	0.00	0.00	0.00	0.00	3.99
19	0.00	0.00	0.00	0.00	0.02	74.71	19	0.00	0.00	0.00	0.00	0.00	3.99
20	0.00	0.00	0.00	0.00	0.04	74.67	20	0.00	0.00	0.00	0.00	0.00	3.99
21	0.00	0.00	0.00	0.00	0.05	74.62	21	0.00	0.00	0.00	0.00	0.00	3.99
22	0.00	0.00	0.00	0.00	0.07	74.55	22	0.00	0.00	0.00	0.00	0.00	3.99
23	0.00	0.00	0.00	0.00	0.07	74.48	23	0.00	0.00	0.00	0.00	0.00	3.99
24	0.00	0.00	0.00	0.00	0.07	74.41	24	0.00	0.00	0.00	0.00	0.00	3.99
25	0.00	0.00	0.00	0.00	0.08	74.33	25	0.00	0.00	0.00	0.00	0.00	3.99
26	0.00	0.00	0.00	0.00	0.04	74.29	26	0.00	0.00	0.00	0.00	0.00	3.99
27	0.00	0.00	0.00	0.00	0.05	74.24	27	0.00	0.00	0.00	0.00	0.00	3.99
28	0.00	0.00	0.00	0.00	0.04	74.20	28	0.00	0.00	0.00	0.00	0.00	3.99
29	0.00	0.00	0.00	0.00	0.02	74.18	29	0.00	0.00	0.00	0.00	0.00	3.99
30	0.00	0.00	0.00	0.00	0.02	74.16	30	0.00	0.00	0.00	0.00	0.00	3.99
	0.00	0.00	0.00	0.00	1.37		0.00	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						71.54							0.00
1	0.00	0.00	0.00	0.00	0.04	71.50	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	71.46	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	71.42	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.06	71.36	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.07	71.29	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.05	71.24	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.04	71.20	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.04	71.16	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.04	71.12	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.04	71.08	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.04	71.04	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.04	71.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.04	70.96	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.09	70.87	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.04	70.83	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.04	70.79	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.04	70.75	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.01	70.74	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.02	70.72	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.04	70.68	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.05	70.63	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.07	70.56	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.07	70.49	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.07	70.42	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.08	70.34	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.04	70.30	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.05	70.25	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	70.21	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.02	70.19	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.02	70.17	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.37		0.00	0.00	0.00	0.00	0.00	0.00	

	A	X
1	MEREDITH	CSU to
2	OUTFLOW	River
3	2016-17	for LAWMA
4		release
5		
6		
7	Date	CFS
389		
390	NOV af:	0.00
391	DEC af:	0.00
392	JAN af:	0.00
393	FEB af:	0.00
394	MAR af:	0.00
395	APR af:	2000.00
396	MAY af:	0.00
397	JUN af:	0.00
398	JUL af:	0.00
399	AUG af:	0.00
400	SEP af:	0.00
401	OCT af:	0.00
402	AF Total:	2000.00
403		



Colorado Springs Utilities

It's how we're all connected

April 13, 2016

VIA EMAIL

Steve Witte
Colorado Division of Water Resources
Division 2 Engineer
310 E. Abriendo Ave., Suite B
Pueblo, CO 81004

Dear Mr. Witte:

On April 13, 2016, Colorado Springs Utilities began a release of 2,000 acre-feet of fully reusable Arkansas River water stored in Lake Meredith for the Lower Arkansas Water Management Association (LAWMA). Specifically, the water leased is the fully-consumable portions of Colorado Springs' Colorado Canal right and Sugarloaf Reservoir/Colorado Gulch Placer Ditch rights. This water will be delivered by LAWMA to the Offset Account in John Martin Reservoir to cover depletions to usable state-line flows caused by well pumping in Colorado.

LAWMA is responsible for obtaining approval by the State Engineer or Division 2 Engineer, as well as all other necessary approvals required for delivery of this water from Lake Meredith to John Martin Reservoir.

Please contact me at (719) 668-8748 if you have any questions.

Sincerely,

Kalsoum Abbasi, P.E.
Senior Project Engineer

cc: Don Higbee
Randy Hendrix
Bill Tyner
John Van Oort
Charlie DiDomenico

121 South Tejon Street, Third Floor
P.O. Box 1103, Mail Code 930
Colorado Springs, CO 80947-0930

Phone 719.448.8888
www@csu.org

Enclosure 3

John Martin Offset Accounting for June and July 2016

Pueblo Reservoir Release Accounting

Letters from Colorado Springs Utilities Documenting Source

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						72.50							3.99
1	0.00	0.00	0.00	0.00	0.05	72.45	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.05	72.40	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.03	72.37	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.03	72.34	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.03	72.31	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.04	72.27	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.08	72.19	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.07	72.12	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.06	72.06	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.07	71.99	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.07	71.92	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.07	71.85	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.06	71.79	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.06	71.73	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.11	71.62	15	0.00	0.00	0.00	0.00	0.01	3.98
16	0.00	0.00	0.00	0.00	0.07	71.55	16	0.00	0.00	0.00	0.00	0.00	3.98
17	0.00	0.00	0.00	0.00	0.07	71.48	17	0.00	0.00	0.00	0.00	0.00	3.98
18	0.00	0.00	0.00	0.00	0.07	71.41	18	0.00	0.00	0.00	0.00	0.00	3.98
19	0.00	0.00	0.00	0.00	0.07	71.34	19	0.00	0.00	0.00	0.00	0.00	3.98
20	0.00	0.00	0.00	0.00	0.10	71.24	20	0.00	0.00	0.00	0.00	0.01	3.97
21	0.00	0.00	0.00	0.00	0.11	71.13	21	0.00	0.00	0.00	0.00	0.01	3.96
22	0.00	0.00	0.00	0.00	0.07	71.06	22	0.00	0.00	0.00	0.00	0.00	3.96
23	0.00	0.00	0.00	0.00	0.06	71.00	23	0.00	0.00	0.00	0.00	0.00	3.96
24	0.00	0.00	0.00	0.00	0.08	70.92	24	0.00	0.00	0.00	0.00	0.00	3.96
25	0.00	0.00	0.00	0.00	0.08	70.84	25	0.00	0.00	0.00	0.00	0.00	3.96
26	0.00	0.00	0.00	0.00	0.08	70.76	26	0.00	0.00	0.00	0.00	0.00	3.96
27	0.00	0.00	0.00	0.00	0.06	70.70	27	0.00	0.00	0.00	0.00	0.00	3.96
28	0.00	0.00	0.00	0.00	0.04	70.66	28	0.00	0.00	0.00	0.00	0.00	3.96
29	0.00	0.00	0.00	0.00	0.07	70.59	29	0.00	0.00	0.00	0.00	0.00	3.96
30	0.00	0.00	0.00	0.00	0.06	70.53	30	0.00	0.00	0.00	0.00	0.00	3.96
	0.00	0.00	0.00	0.00	1.97			0.00	0.00	0.00	0.00	0.03	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						68.51							0.00
1	0.00	0.00	0.00	0.00	0.05	68.46	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.05	68.41	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.03	68.38	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.03	68.35	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.03	68.32	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.04	68.28	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	68.20	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.07	68.13	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.06	68.07	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.07	68.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.07	67.93	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.07	67.86	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.06	67.80	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.06	67.74	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.10	67.64	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.07	67.57	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.07	67.50	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.07	67.43	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.07	67.36	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.09	67.27	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	67.17	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.07	67.10	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.06	67.04	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.08	66.96	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.08	66.88	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.08	66.80	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.06	66.74	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	66.70	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.07	66.63	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.06	66.57	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.94			0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						70.53							3.96
1	0.00	0.00	0.00	0.00	0.04	70.49	1	0.00	0.00	0.00	0.00	0.00	3.96
2	0.00	0.00	0.00	0.00	0.04	70.45	2	0.00	0.00	0.00	0.00	0.00	3.96
3	0.00	0.00	0.00	0.00	0.04	70.41	3	0.00	0.00	0.00	0.00	0.00	3.96
4	0.00	0.00	0.00	0.00	0.04	70.37	4	0.00	0.00	0.00	0.00	0.00	3.96
5	0.00	0.00	0.00	0.00	0.06	70.31	5	0.00	0.00	0.00	0.00	0.00	3.96
6	0.00	0.00	0.00	0.00	0.10	70.21	6	0.00	0.00	0.00	0.00	0.01	3.95
7	0.00	0.00	0.00	0.00	0.11	70.10	7	0.00	0.00	0.00	0.00	0.01	3.94
8	0.00	0.00	0.00	0.00	0.07	70.03	8	0.00	0.00	0.00	0.00	0.00	3.94
9	0.00	0.00	0.00	0.00	0.07	69.96	9	0.00	0.00	0.00	0.00	0.00	3.94
10	0.00	0.00	0.00	0.00	0.07	69.89	10	0.00	0.00	0.00	0.00	0.00	3.94
11	0.00	0.00	0.00	0.00	0.11	69.78	11	0.00	0.00	0.00	0.00	0.01	3.93
12	0.00	0.00	0.00	0.00	0.05	69.73	12	0.00	0.00	0.00	0.00	0.00	3.93
13	0.00	0.00	0.00	0.00	0.07	69.66	13	0.00	0.00	0.00	0.00	0.00	3.93
14	0.00	0.00	0.00	0.00	0.07	69.59	14	0.00	0.00	0.00	0.00	0.00	3.93
15	0.00	0.00	0.00	0.00	0.10	69.49	15	0.00	0.00	0.00	0.00	0.01	3.92
16	0.00	0.00	0.00	0.00	0.10	69.39	16	0.00	0.00	0.00	0.00	0.01	3.91
17	0.00	0.00	0.00	0.00	0.10	69.29	17	0.00	0.00	0.00	0.00	0.01	3.90
18	0.00	0.00	0.00	0.00	0.07	69.22	18	0.00	0.00	0.00	0.00	0.00	3.90
19	0.00	0.00	0.00	0.00	0.12	69.10	19	0.00	0.00	0.00	0.00	0.01	3.89
20	0.00	0.00	0.00	0.00	0.11	68.99	20	0.00	0.00	0.00	0.00	0.01	3.88
21	0.00	0.00	0.00	7.92	0.10	60.97	21	0.00	0.00	0.00	0.00	0.01	3.87
22	0.00	0.00	0.00	60.90	0.07	0.00	22	0.00	0.00	0.00	3.87	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	68.82	1.71			0.00	0.00	0.00	3.87	0.09	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keese Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.57							0.00
1	0.00	0.00	0.00	0.00	0.04	66.53	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	66.49	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	66.45	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.04	66.41	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.06	66.35	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.09	66.26	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.10	66.16	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.07	66.09	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.07	66.02	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.07	65.95	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.10	65.85	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.05	65.80	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.07	65.73	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.07	65.66	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.09	65.57	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.09	65.48	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.09	65.39	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.07	65.32	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.11	65.21	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.10	65.11	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	7.92	0.09	57.10	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	57.03	0.07	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	64.95	1.62			0.00	0.00	0.00	0.00	0.00	

Pueblo Reservoir Release Accounting

2016ArkTools_DailyTransactionsWorkbook

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

fx

	A	B	C	DQ	DR	DS	DT	DU	DV	DW	DX
1	NOTE: When adding a new column, copy over formulas in rows 375-385 (which pull from MASTER) to feed data to the "Flows Viewer".										
2											
3											
4				ZZZZ	AAAA	AGUA	Aurora	CS-U	CS-U	Catlin	Catlin
5				Last Column	First Column	I&W	LT	LT	LT	Project	WW
6				Do Not Delete	Do Not Delete	(Excelsior)	(Highline Canal)	(Colo Canal)	(LAWMA-JMR)		
7	Date	Day	YrMo	Last Column Do No	First Column Do No	GUA I&W (Excelsior)	Aurora LT (Highline Canal)	S-U LT (Colo Canals)	CS-U LT (LAWMA-JMR)	Catlin Project	Catlin WW
239	6/19/2016	Sun	201606								
240	6/20/2016	Mon	201606								
241	6/21/2016	Tue	201606						99.18		
242	6/22/2016	Wed	201606						198.35		
243	6/23/2016	Thu	201606						198.35		
244	6/24/2016	Fri	201606						198.35		
245	6/25/2016	Sat	201606						198.35		
246	6/26/2016	Sun	201606						198.35		
247	6/27/2016	Mon	201606						198.35		
248	6/28/2016	Tue	201606						198.35		
249	6/29/2016	Wed	201606						198.35		
250	6/30/2016	Thu	201606						198.35		
251	7/1/2016	Fri	201607						198.35		
252	7/2/2016	Sat	201607						198.35		
253	7/3/2016	Sun	201607						20.62		



June 20, 2016

VIA EMAIL

Steve Witte
Colorado Division of Water Resources
Division 2 Engineer
310 E. Abriendo Ave., Suite B
Pueblo, CO 81004

Dear Mr. Witte:

On June 20, 2016, Colorado Springs Utilities began a release of 2,500 acre-feet of fully reusable Arkansas River water stored in Pueblo Reservoir for the Lower Arkansas Water Management Association (LAWMA). Specifically, the water leased is the fully-consumable portions of Colorado Springs' Colorado Canal right and Sugarloaf Reservoir/Colorado Gulch Placer Ditch rights. This water will be delivered by LAWMA to the Offset Account in John Martin Reservoir to cover depletions to usable state-line flows caused by well pumping in Colorado.

LAWMA is responsible for obtaining approval by the State Engineer or Division 2 Engineer, as well as all other necessary approvals required for delivery of this water from Pueblo Reservoir to John Martin Reservoir.

Please contact me at (719) 668-8748 if you have any questions.

Sincerely,

Abigail Ortega, P.E.
Planning Supervisor

cc: Don Higbee
Randy Hendrix
Bill Tyner
John Van Oort
Charlie DiDomenico

121 South Tejon Street, Third Floor
P.O. Box 1103, Mail Code 930
Colorado Springs, CO 80947-0930

Phone 719.448.8888
www@csu.org

NOVEMBER



November 17, 2016

David Barfield
 Kansas Chief Engineer (Acting)
 Kansas Board of Agriculture
 901 S. Kansas Avenue, 2nd Floor
 Topeka, KS 66612-1283

RE: Notice of Delivery to the Offset Account in John Martin Reservoir – Highland Water Right

Dear Mr. Barfield:

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”) of a delivery of water to the Offset Account. This letter provides the reporting of deliveries to the Offset Account from the Lower Arkansas Water Management Association’s (LAWMA) shares of the Highland Irrigation Company. This letter also serves to describe the operations in 2016, first described in the letter of May 12, 2016, which provided the initial notice of the delivery of water from this replacement source for 2016.

Summary

For the first part of the 2016 irrigation season LAWMA delivered the Highland water right to the Offset Account, however for part of the season LAWMA needed to use the Highland consumable water to meet in-state obligations by delivering the water through John Martin Reservoir and not storing the credits in the Offset Account.

Enclosure 1 contains the accounting spreadsheets used to determine the original credits from the Highland Canal for 2016 that resulted in the JMAS accounting to be presented in the Offset Account Report and Operation Secretary’s Report.

The following table summarizes the actual deliveries of water into the Offset Account during the reporting period from the Highland Canal water rights.

MONTH	C. U. Water to In-State Replacement (ac-ft)	C. U. Water to the Offset Account (ac-ft)
April	0.00	576.89
May	504.50	288.25
June	733.21	173.49
July	356.08	0.00
August	473.11	0.00
September	490.66	0.00
October	96.07	9.38
Total	2653.63	1048.01



David Barfield
November 17, 2016

Page 2

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte, P.E.
Division Engineer
Colorado Division of Water Resources

1 Enclosure

cc: Kevin Salter Dale Book Don Higbee Randy Hendrix
Bill Tyner Phil Reynolds Charlie DiDomenico Rachel Zancanella

Enclosure 1

Highland Canal Accounting for 2016

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
April, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water to Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Bypassed for In-State Replacement	Amount of CU Water to Account 53 (ac-ft)
4/2/2016	15.40	15.40	0.07512	14.24	28.25	17.41	1.27	0.00	17.41
4/3/2016	19.00	19.00	0.07512	17.57	34.86	21.48	1.57	0.00	21.48
4/4/2016	23.30	23.30	0.07512	21.55	42.74	26.34	1.92	0.00	26.34
4/5/2016	21.30	21.30	0.07512	19.70	39.07	24.08	1.76	0.00	24.08
4/6/2016	19.90	19.90	0.07512	18.41	36.51	22.50	1.64	0.00	22.50
4/7/2016	18.60	18.60	0.07512	17.20	34.12	21.03	1.54	0.00	21.03
4/8/2016	14.60	14.60	0.07512	13.50	26.78	16.51	1.21	0.00	16.51
4/9/2016	12.90	12.90	0.07512	11.93	23.67	14.58	1.07	0.00	14.58
4/10/2016	12.40	12.40	0.06597	11.58	22.97	14.16	0.90	0.00	14.16
4/11/2016	11.20	11.20	0.05926	10.54	20.90	12.88	0.73	0.00	12.88
4/12/2016	12.00	12.00	0.05337	11.36	22.53	13.88	0.70	0.00	13.88
4/13/2016	12.40	12.40	0.05011	11.78	23.36	14.40	0.68	0.00	14.40
4/14/2016	12.00	12.00	0.05337	11.36	22.53	13.88	0.70	0.00	13.88
4/15/2016	11.80	11.80	0.05011	11.21	22.23	13.70	0.65	0.00	13.70
4/16/2016	11.30	11.30	0.05011	10.73	21.29	13.12	0.62	0.00	13.12
4/17/2016	15.50	15.50	0.05011	14.72	29.20	18.00	0.85	0.00	18.00
4/18/2016	16.30	16.30	0.05011	15.48	30.71	18.93	0.90	0.00	18.93
4/19/2016	14.90	14.90	0.05926	14.02	27.80	17.13	0.97	0.00	17.13
4/20/2016	16.00	16.00	0.05926	15.05	29.86	18.40	1.04	0.00	18.40
4/21/2016	24.70	24.70	0.06597	23.07	45.76	28.20	1.79	0.00	28.20
4/22/2016	24.00	24.00	0.06597	22.42	44.46	27.40	1.74	0.00	27.40
4/23/2016	24.00	24.00	0.06597	22.42	44.46	27.40	1.74	0.00	27.40
4/24/2016	24.00	24.00	0.06597	22.42	44.46	27.40	1.74	0.00	27.40
4/25/2016	24.00	24.00	0.06597	22.42	44.46	27.40	1.74	0.00	27.40
4/26/2016	21.90	21.90	0.06597	20.46	40.57	25.00	1.59	0.00	25.00
4/27/2016	18.70	18.70	0.05926	17.59	34.89	21.50	1.22	0.00	21.50
4/28/2016	17.80	17.80	0.05926	16.75	33.21	20.47	1.16	0.00	20.47
4/29/2016	15.80	15.80	0.06597	14.76	29.27	18.04	1.15	0.00	18.04
4/30/2016	19.00	19.00	0.06597	17.75	35.20	21.69	1.38	0.00	21.69
5/1/2016	18.50	18.50	0.05337	17.51	34.74	21.41	1.09	0.00	21.41
						598.30	37.07	0.00	598.30
						598.30	35.99	0.00	576.89

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
May, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Amount to CU Water Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Bypassed for In-State Replacement	Amount of CU Water to Account (ac-ft)
5/2/2016	17.10	17.10	0.05337	16.19	32.11	21.72	1.10	0.00	21.72
5/3/2016	24.00	24.00	0.05337	22.72	45.06	30.48	1.55	0.00	30.48
5/4/2016	24.00	24.00	0.04791	22.85	45.32	30.65	1.39	0.00	30.65
5/5/2016	24.00	24.00	0.04791	22.85	45.32	30.65	1.39	0.00	30.65
5/6/2016	24.00	24.00	0.04468	22.93	45.48	30.76	1.29	0.00	30.76
5/7/2016	24.00	24.00	0.04124	23.01	45.64	30.87	1.19	0.00	30.87
5/8/2016	24.00	24.00	0.04361	22.95	45.53	30.79	1.26	0.00	30.79
5/9/2016	24.00	24.00	0.05381	22.71	45.04	30.46	1.56	0.00	30.46
5/10/2016	24.00	24.00	0.05381	22.71	45.04	30.46	1.56	0.00	30.46
5/11/2016	24.00	24.00	0.05790	22.61	44.85	30.33	1.68	30.33	0.00
5/12/2016	21.29	21.29	0.05790	20.06	39.78	26.91	1.49	26.91	0.00
5/13/2016	20.43	20.43	0.05790	19.25	38.18	25.82	1.43	25.82	0.00
5/14/2016	20.74	20.74	0.05790	19.54	38.76	26.21	1.45	26.21	0.00
5/15/2016	17.90	17.90	0.06461	16.74	33.21	22.46	1.40	22.46	0.00
5/16/2016	17.20	17.20	0.06597	16.07	31.87	21.55	1.37	21.55	0.00
5/17/2016	17.60	17.60	0.06461	16.46	32.65	22.08	1.37	22.08	0.00
5/18/2016	15.80	15.80	0.05790	14.89	29.52	19.97	1.10	19.97	0.00
5/19/2016	14.80	14.80	0.05337	14.01	27.79	18.79	0.95	18.79	0.00
5/20/2016	14.20	14.20	0.05337	13.44	26.66	18.03	0.91	18.03	0.00
5/21/2016	20.26	20.26	0.04791	19.29	38.26	25.88	1.17	25.88	0.00
5/22/2016	20.43	20.43	0.04791	19.45	38.58	26.09	1.18	26.09	0.00
5/23/2016	20.56	20.56	0.04265	19.68	39.04	26.40	1.06	26.40	0.00
5/24/2016	20.56	20.56	0.04875	19.56	38.79	26.24	1.21	26.24	0.00
5/25/2016	20.57	20.57	0.05337	19.47	38.62	26.12	1.32	26.12	0.00
5/26/2016	20.70	20.70	0.05337	19.60	38.87	26.29	1.33	26.29	0.00
5/27/2016	20.72	20.72	0.05337	19.61	38.90	26.31	1.33	26.31	0.00
5/28/2016	17.70	17.70	0.05011	16.81	33.35	22.55	1.07	22.55	0.00
5/29/2016	18.30	18.30	0.05011	17.38	34.48	23.32	1.11	23.32	0.00
5/30/2016	18.90	18.90	0.05011	17.95	35.61	24.08	1.14	24.08	0.00
5/31/2016	15.00	15.00	0.05337	14.20	28.16	19.05	0.97	19.05	0.00
6/1/2016	16.30	16.30	0.05337	15.43	30.61	20.70	1.05	20.70	0.00
						792.05	39.39	525.20	266.84
						771.35		504.50	288.25

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
June, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water to Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Bypassed for In-State Replacement	Amount of CU Water to Account (ac-ft)
6/2/2016	20.46	20.46	0.03992	13.00	25.79	19.40	10.01	19.40	0.00
6/3/2016	20.77	20.77	0.02229	20.31	40.28	30.31	0.62	30.31	0.00
6/4/2016	20.81	20.81	0.03856	20.01	39.69	29.86	1.08	29.86	0.00
6/5/2016	21.02	21.02	0.05200	19.93	39.53	29.74	1.47	29.74	0.00
6/6/2016	21.14	21.14	0.05926	19.89	39.45	29.68	1.68	29.68	0.00
6/7/2016	19.70	19.70	0.05337	18.65	36.99	27.84	1.41	27.84	0.00
6/8/2016	16.60	16.60	0.05337	15.71	31.17	23.46	1.19	23.46	0.00
6/9/2016	13.60	13.60	0.04401	13.00	25.79	19.41	0.80	19.41	0.00
6/10/2016	21.11	21.11	0.02775	20.52	40.71	30.63	0.79	30.63	0.00
6/11/2016	20.76	20.76	0.02229	20.30	40.26	30.30	0.62	30.30	0.00
6/12/2016	20.72	20.72	0.02229	20.26	40.18	30.24	0.62	30.24	0.00
6/13/2016	20.72	20.72	0.03856	19.92	39.51	29.73	1.07	29.73	0.00
6/14/2016	20.84	20.84	0.02122	20.40	40.46	30.45	0.59	30.45	0.00
6/15/2016	20.81	20.81	0.02229	20.35	40.36	30.37	0.62	30.37	0.00
6/16/2016	20.70	20.70	0.03856	19.90	39.48	29.71	1.07	29.71	0.00
6/17/2016	59.14	59.14	0.01799	58.08	115.19	86.69	1.43	0.00	86.69
6/18/2016	59.22	59.22	0.01799	58.15	115.35	86.80	1.43	0.00	86.80
6/19/2016	20.72	20.72	0.03748	19.94	39.56	29.77	1.04	29.77	0.00
6/20/2016	20.92	20.92	0.03856	20.11	39.89	30.02	1.08	30.02	0.00
6/21/2016	20.98	20.98	0.04875	19.96	39.59	29.79	1.37	29.79	0.00
6/22/2016	20.51	20.51	0.05337	19.42	38.51	28.98	1.47	28.98	0.00
6/23/2016	20.56	20.56	0.05337	19.46	38.60	29.05	1.47	29.05	0.00
6/24/2016	20.56	20.56	0.04875	19.56	38.79	29.19	1.35	29.19	0.00
6/25/2016	20.48	20.48	0.04265	19.61	38.89	29.26	1.17	29.26	0.00
6/26/2016	20.50	20.50	0.04401	19.60	38.87	29.25	1.21	29.25	0.00
6/27/2016	17.20	17.20	0.04401	16.44	32.61	24.54	1.02	24.54	0.00
6/28/2016	15.20	15.20	0.04401	14.53	28.82	21.69	0.90	21.69	0.00
6/29/2016	11.60	11.60	0.04401	11.09	22.00	16.55	0.69	16.55	0.00
6/30/2016	9.80	9.80	0.04401	9.37	18.58	13.98	0.58	13.98	0.00
7/1/2016	9.42	9.42	0.05011	8.95	17.75	13.36	0.63	13.36	0.00
						920.05	40.50	746.57	173.49
						173.49		733.21	173.49

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
July, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Amount to CU Water Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Bypassed for In-State Replacement	Amount of CU Water to Account (ac-ft)
7/2/2016	14.80	14.80	0.05011	14.06	27.88	22.07	1.05	22.07	0.00
7/3/2016	20.32	20.32	0.05011	19.30	38.28	30.31	1.44	30.31	0.00
7/4/2016	20.54	20.54	0.04401	19.64	38.95	30.83	1.28	30.83	0.00
7/5/2016	20.55	20.55	0.05011	19.52	38.72	30.65	1.45	30.65	0.00
7/6/2016	18.80	18.80	0.05011	17.86	35.42	28.04	1.33	28.04	0.00
7/7/2016	15.10	15.10	0.05337	14.29	28.35	22.44	1.14	22.44	0.00
7/8/2016	19.73	19.73	0.05337	18.68	37.05	29.33	1.49	29.33	0.00
7/9/2016	16.00	16.00	0.05337	15.15	30.04	23.78	1.21	23.78	0.00
7/10/2016	12.90	12.90	0.05337	12.21	24.22	19.17	0.97	19.17	0.00
7/11/2016	10.50	10.50	0.04401	10.04	19.91	15.76	0.65	15.76	0.00
7/12/2016	8.81	8.81	0.05337	8.34	16.54	13.09	0.66	13.09	0.00
7/13/2016	5.75	5.75	0.05337	5.44	10.80	8.55	0.43	8.55	0.00
7/14/2016	8.87	8.87	0.05337	8.40	16.65	13.18	0.67	13.18	0.00
7/15/2016	6.69	6.69	0.05337	6.33	12.56	9.94	0.50	9.94	0.00
7/16/2016	9.24	9.24	0.05337	8.75	17.35	13.73	0.70	13.73	0.00
7/17/2016	11.50	11.50	0.05926	10.82	21.46	16.99	0.96	16.99	0.00
7/18/2016	4.46	4.46	0.06597	4.17	8.26	6.54	0.42	6.54	0.00
7/19/2016	2.85	2.85	0.06597	2.66	5.28	4.18	0.27	4.18	0.00
7/20/2016	1.96	1.96	0.06597	1.83	3.63	2.87	0.18	2.87	0.00
7/21/2016	0.75	0.75	0.06597	0.70	1.39	1.10	0.07	1.10	0.00
7/22/2016	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	0.00	0.00
7/23/2016	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	0.00	0.00
7/24/2016	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	0.00	0.00
7/25/2016	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	0.00	0.00
7/26/2016	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	0.00	0.00
7/27/2016	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	0.00	0.00
7/28/2016	0.02	0.02	0.05926	0.02	0.04	0.03	0.00	0.03	0.00
7/29/2016	0.03	0.03	0.05926	0.03	0.06	0.04	0.00	0.04	0.00
7/30/2016	0.03	0.03	0.05926	0.03	0.06	0.04	0.00	0.04	0.00
7/31/2016	0.02	0.02	0.06597	0.02	0.04	0.03	0.00	0.03	0.00
8/1/2016	0.01	0.01	0.06597	0.01	0.02	0.01	0.00	0.01	0.00
						342.74	16.87	342.74	0.00
						356.08		356.08	0.00

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
August, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Amount to CU Water Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	In-State Replacement Flows	Amount of CU Water to Account (ac-ft)
8/2/2016	0.02	0.02	0.05337	0.02	0.04	0.03	0.00	0.03	0.00
8/3/2016	0.01	0.01	0.06597	0.01	0.02	0.01	0.00	0.01	0.00
8/4/2016	0.03	0.03	0.07512	0.03	0.06	0.04	0.00	0.04	0.00
8/5/2016	0.40	0.40	0.07512	0.37	0.73	0.59	0.04	0.59	0.00
8/6/2016	0.05	0.05	0.08671	0.05	0.09	0.07	0.01	0.07	0.00
8/7/2016	0.34	0.34	0.08671	0.31	0.62	0.50	0.04	0.50	0.00
8/8/2016	21.20	21.20	0.08671	1.40	2.78	2.24	28.52	2.24	0.00
8/9/2016	20.20	20.20	0.07512	18.68	37.06	29.93	2.19	29.93	0.00
8/10/2016	12.70	12.70	0.06597	11.86	23.53	19.00	1.21	19.00	0.00
8/11/2016	12.00	12.00	0.05011	11.00	21.82	17.62	1.44	17.62	0.00
8/12/2016	8.28	8.28	0.05011	7.87	15.60	12.60	0.60	12.60	0.00
8/13/2016	5.77	5.77	0.05011	5.48	10.87	8.78	0.42	8.78	0.00
8/14/2016	7.07	7.07	0.05011	5.90	11.70	9.45	1.69	9.45	0.00
8/15/2016	7.86	7.86	0.05337	7.44	14.76	11.92	0.60	11.92	0.00
8/16/2016	4.23	4.23	0.06597	3.95	7.84	6.33	0.40	6.33	0.00
8/17/2016	4.70	4.70	0.06597	4.39	8.71	7.03	0.45	7.03	0.00
8/18/2016	15.60	15.60	0.07512	9.40	18.64	15.06	8.93	15.06	0.00
8/19/2016	10.80	10.80	0.07512	9.99	19.81	16.00	1.17	16.00	0.00
8/20/2016	20.13	20.13	0.06597	13.00	25.79	20.82	10.27	20.82	0.00
8/21/2016	20.12	20.12	0.05926	18.93	37.54	30.32	1.72	30.32	0.00
8/22/2016	19.90	19.90	0.05337	18.84	37.37	30.17	1.53	30.17	0.00
8/23/2016	15.10	15.10	0.05926	14.21	28.18	22.75	1.29	22.75	0.00
8/24/2016	10.00	10.00	0.05011	9.50	18.84	15.22	0.72	15.22	0.00
8/25/2016	16.00	16.00	0.05011	15.00	29.75	24.03	1.44	24.03	0.00
8/26/2016	17.00	17.00	0.05011	16.15	32.03	25.87	0.00	25.87	0.00
8/27/2016	18.40	18.40	0.05011	17.48	34.67	28.00	0.00	28.00	0.00
8/28/2016	20.33	20.33	0.05011	19.31	38.30	30.93	0.00	30.93	0.00
8/29/2016	20.39	20.39	0.05337	19.30	38.29	30.92	1.57	30.92	0.00
8/30/2016	19.70	19.70	0.05337	18.65	36.99	29.87	1.51	29.87	0.00
8/31/2016	17.80	17.80	0.05337	16.85	33.42	26.99	1.37	26.99	0.00
9/1/2016	20.39	20.39	0.04401	19.49	38.66	31.22	1.29	31.22	0.00
						504.32	70.42	504.32	0.00
						473.11	69.13	473.11	0.00

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
September, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water to Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Bypassed for In-State Replacement	Amount of CU Water to Account (ac-ft)
9/2/2016	20.39	20.39	0.05011	19.37	38.42	26.08	1.24	26.08	0.00
9/3/2016	14.00	14.00	0.04401	13.38	26.55	18.02	0.75	18.02	0.00
9/4/2016	8.62	8.62	0.04401	8.24	16.35	11.10	0.46	11.10	0.00
9/5/2016	10.40	10.40	0.05011	9.88	19.59	13.30	0.63	13.30	0.00
9/6/2016	9.61	9.61	0.05011	9.13	18.11	12.29	0.58	12.29	0.00
9/7/2016	20.39	20.39	0.05337	19.00	37.69	25.58	1.68	25.58	0.00
9/8/2016	16.50	16.50	0.05337	15.62	30.98	21.03	1.07	21.03	0.00
9/9/2016	11.00	11.00	0.05337	10.41	20.65	14.02	0.71	14.02	0.00
9/10/2016	14.30	14.30	0.05926	13.45	26.68	18.11	1.03	18.11	0.00
9/11/2016	11.70	11.70	0.05926	11.01	21.83	14.82	0.84	14.82	0.00
9/12/2016	8.94	8.94	0.05926	8.41	16.68	11.32	0.64	11.32	0.00
9/13/2016	4.99	4.99	0.06597	4.66	9.24	6.28	0.40	6.28	0.00
9/14/2016	2.58	2.58	0.06597	2.41	4.78	3.24	0.21	3.24	0.00
9/15/2016	2.18	2.18	0.07512	2.02	4.00	2.71	0.20	2.71	0.00
9/16/2016	4.64	4.64	0.07512	4.29	8.51	5.78	0.42	5.78	0.00
9/17/2016	24.00	24.00	0.06188	22.51	44.66	30.32	1.80	30.32	0.00
9/18/2016	24.00	24.00	0.06597	22.42	44.46	30.18	1.92	30.18	0.00
9/19/2016	24.00	24.00	0.07512	22.20	44.03	29.89	2.18	29.89	0.00
9/20/2016	21.80	21.80	0.07512	20.16	39.99	27.15	1.98	27.15	0.00
9/21/2016	17.50	17.50	0.07512	16.19	32.10	21.79	1.59	21.79	0.00
9/22/2016	14.80	14.80	0.07512	13.69	27.15	18.43	1.35	18.43	0.00
9/23/2016	12.30	12.30	0.07512	11.38	22.56	15.32	1.12	15.32	0.00
9/24/2016	10.10	10.10	0.07512	9.34	18.53	12.58	0.92	12.58	0.00
9/25/2016	9.73	9.73	0.07512	9.00	17.85	12.12	0.88	12.12	0.00
9/26/2016	9.53	9.53	0.07512	8.81	17.48	11.87	0.87	11.87	0.00
9/27/2016	9.22	9.22	0.07512	8.53	16.91	11.48	0.84	11.48	0.00
9/28/2016	10.80	10.80	0.07512	9.99	19.81	13.45	0.98	13.45	0.00
9/29/2016	9.41	9.41	0.07512	8.70	17.26	11.72	0.86	11.72	0.00
9/30/2016	7.59	7.59	0.07512	7.02	13.92	9.45	0.69	9.45	0.00
10/1/2016	6.57	6.57	0.07512	6.08	12.05	8.18	0.60	8.18	0.00
						467.62	29.41	467.62	0.00
						490.66	30.11	490.66	0.00

**Deliveries from Highland Canal for Consumptive Use credit to Offset Account
October, 2016**

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Amount to CU Water Account (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Bypassed for In-State Replacement	Amount of CU Water to Account (ac-ft)
10/2/2016	5.53	5.53	0.08671	5.05	10.02	3.58	0.30	0.00	3.58
10/3/2016	3.59	3.59	0.08671	3.28	6.50	2.32	0.20	0.00	2.32
10/4/2016	2.86	2.86	0.08671	2.61	5.18	1.85	0.16	0.00	1.85
10/5/2016	2.51	2.51	0.08671	2.29	4.55	1.63	0.14	0.00	1.63
10/6/2016	2.05	2.05	0.08671	1.87	3.71	1.33	0.11	1.33	0.00
10/7/2016	2.11	2.11	0.08671	1.93	3.82	1.37	0.12	1.37	0.00
10/8/2016	2.07	2.07	0.08671	1.89	3.75	1.34	0.11	1.34	0.00
10/9/2016	1.81	1.81	0.08671	1.65	3.28	1.17	0.10	1.17	0.00
10/10/2016	1.37	1.37	0.08671	1.25	2.48	0.89	0.08	0.89	0.00
10/11/2016	0.60	0.60	0.08671	0.55	1.09	0.39	0.03	0.39	0.00
10/12/2016	3.13	3.13	0.08671	2.86	5.67	2.03	0.17	2.03	0.00
10/13/2016	5.26	5.26	0.08671	3.50	6.94	2.48	1.12	2.48	0.00
10/14/2016	3.79	3.79	0.08671	3.46	6.87	2.45	0.21	2.45	0.00
10/15/2016	6.66	6.66	0.08671	3.50	6.94	2.48	2.01	2.48	0.00
10/16/2016	12.90	12.90	0.08671	2.60	5.16	1.84	6.55	1.84	0.00
10/17/2016	5.69	5.69	0.08671	2.50	4.96	1.77	2.03	1.77	0.00
10/18/2016	2.87	2.87	0.08671	2.30	4.56	1.63	0.36	1.63	0.00
10/19/2016	3.31	3.31	0.08671	2.40	4.76	1.70	0.58	1.70	0.00
10/20/2016	5.44	5.44	0.08671	2.40	4.76	1.70	1.93	1.70	0.00
10/21/2016	3.46	3.46	0.08671	2.50	4.96	1.77	0.61	1.77	0.00
10/22/2016	11.00	11.00	0.08671	2.50	4.96	1.77	5.40	1.77	0.00
10/23/2016	10.50	10.50	0.08671	2.90	5.75	2.06	4.83	2.06	0.00
10/24/2016	16.10	16.10	0.08671	9.30	18.45	6.59	4.32	6.59	0.00
10/25/2016	13.60	13.60	0.08671	12.42	24.64	8.81	0.75	8.81	0.00
10/26/2016	18.90	18.90	0.08671	15.00	29.75	10.64	2.48	10.64	0.00
10/27/2016	17.00	17.00	0.08671	15.53	30.80	11.01	0.94	11.01	0.00
10/28/2016	11.80	11.80	0.07512	10.91	21.65	7.74	0.56	7.74	0.00
10/29/2016	10.20	10.20	0.07512	9.43	18.71	6.69	0.49	6.69	0.00
10/30/2016	4.93	4.93	0.07512	4.56	9.04	3.23	0.24	3.23	0.00
10/31/2016	4.59	4.59	0.07512	4.25	8.42	3.01	0.22	3.01	0.00
11/1/2016	4.09	4.09	0.07512	3.78	7.50	2.68	0.20	2.68	0.00
						99.95	37.33	90.57	9.38
						105.45	37.73	96.07	9.38



November 17, 2016

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66613-1383

RE: Notice of Delivery to the Offset Account in John Martin Reservoir – Keesee Water Right

Dear Mr. Barfield:

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”) of a delivery of water to the Offset Account. This letter provides the monthly reporting of deliveries to the Offset Account from the Lower Arkansas Water Management Association’s (LAWMA) shares of the Keesee Ditch first described in the letter of April 13, 2016, which provided the initial notice of the delivery of water from this replacement source for 2016. This letter also serves to describe the operations in 2016.

Keesee Ditch operations pursuant to Paragraph 14 of the Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998

LAWMA was able to store the consumable portion of half of the Keesee Ditch water right in the Offset Account in John Martin Reservoir except during times when John Martin Reservoir was in Conservation storage, which were significant in 2016. During times of storage, the return flow component was left in the river to prevent injury consistent with the provisions for maintaining return flows described in LAWMA’s decrees in Colorado Water Court Case 02CW181 and 05CW52.

The basic daily operation of the determination of the in-priority amount for the Keesee Ditch, computation of consumptive use component, and subsequent storage are described below:

1. On a daily basis the River Operations Coordination staff in the Division 2 office determined from available inflows the amount available for diversion by Water District 67 ditches under the priority system with appropriate transit loss included. Due to the relative seniority of the Keesee Ditch 1881 and 1883 water rights, the amount available to the Keesee Ditch water right was most typically the full 13.5 cubic feet per second (9 cfs for 1881 and 4.5 cfs for 1883). The relatively junior third priority Keesee Ditch water right (15 cfs for 1893) was not in priority in 2016 during times when John Martin Reservoir was not in conservation storage. There were days when inflows were determined to be insufficient to fill the senior 1881 Keesee Ditch right during 2016.
2. Upon determination of the daily amount available to the Keesee Ditch for diversion, the monthly consumptive use factor was applied to determine the amount of consumable water available to be stored or bypassed for in-state replacement.
3. The consumable portion to be stored was then shown as an inflow to the Offset Account and deposited in the Colorado Downstream Consumable subaccount.



4. Dryup acreage was monitored by both Colorado and Kansas through site visits and by LAWMA through coordination with the Keesee Ditch owner.

Summary

Enclosure 1 contains the accounting spreadsheets used to determine the credits from the Keesee Ditch for 2016.

The following table summarizes the deliveries of water into the Offset Account during the reporting period.

MONTH	C. U. Water to the Offset Account (ac-ft)	C. U. Water to In-State Replacement (ac-ft)
April	0.00	205.50
May	72.64	75.60
June	150.30	146.61
July	79.30	79.26
August	0.00	0.00
September	0.00	0.00
October	0.00	0.00
Total	302.24	506.97

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte, P.E.
Division Engineer
Colorado Division of Water Resources

1 Enclosure

cc: Kevin Salter Dale Book Charlie DiDomenico
Dan Steuer Don Higbee Randy Hendrix Bill Tyner Rachel Zancanella

Enclosure 1

Keesee Ditch Accounting for 2016

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
April, 2016**

Date	Keesee in Priority	Computed CU Water to Account 53	Keesee Bypassed for In-State	Computed CU Water to Reach 11
	(cfs)	(ac-ft)	(cfs)	(ac-ft)
4/1/2016	3.00	0.00	3.00	4.46
4/2/2016	3.00	0.00	3.00	4.46
4/3/2016	3.00	0.00	3.00	4.46
4/4/2016	3.00	0.00	3.00	4.46
4/5/2016	3.00	0.00	3.00	4.46
4/6/2016	3.00	0.00	3.00	4.46
4/7/2016	3.00	0.00	3.00	4.46
4/8/2016	3.00	0.00	3.00	4.46
4/9/2016	3.00	0.00	3.00	4.46
4/10/2016	5.00	0.00	5.00	7.44
4/11/2016	5.00	0.00	5.00	7.44
4/12/2016	5.00	0.00	5.00	7.44
4/13/2016	5.00	0.00	5.00	7.44
4/14/2016	5.00	0.00	5.00	7.44
4/15/2016	5.00	0.00	5.00	7.44
4/16/2016	5.00	0.00	5.00	7.44
4/17/2016	5.00	0.00	5.00	7.44
4/18/2016	5.00	0.00	5.00	7.44
4/19/2016	5.00	0.00	5.00	7.44
4/20/2016	5.00	0.00	5.00	7.44
4/21/2016	8.00	0.00	8.00	11.90
4/22/2016	8.00	0.00	8.00	11.90
4/23/2016	8.00	0.00	8.00	11.90
4/24/2016	8.00	0.00	8.00	11.90
4/25/2016	8.00	0.00	8.00	11.90
4/26/2016	8.00	0.00	8.00	11.90
4/27/2016	8.00	0.00	8.00	11.90
4/28/2016	0.14	0.00	0.14	0.21
4/29/2016	0.00	0.00	0.00	0.00
4/30/2016	0.00	0.00	0.00	0.00
Total Diversion AF=	274.00	0.00	274.00	205.50
Max Diversion AF=	862.00	Actual Diversion AF=	548.00	AF
Max Monthly CU AF=	646.50	Actual CU AF=	205.50	AF

End of Month Adjustment= 0.00 AF

CU factor for April = 75.0%
 Cumulative Annual Diversion AF= 548.00
 Maximum Annual Diversion AF= 5006

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
May, 2016**

Date	Keesee in Priority	Computed CU Water to Account 53	Keesee Bypassed for In-State	Computed CU Water to Reach 11
	(cfs)	(ac-ft)	(cfs)	(ac-ft)
5/1/2016	1.00	0.77	0.50	0.76
5/2/2016	1.00	0.77	0.50	0.76
5/3/2016	1.00	0.77	0.50	0.76
5/4/2016	1.00	0.77	0.50	0.76
5/5/2016	1.00	0.77	0.50	0.76
5/6/2016	1.00	0.77	0.50	0.76
5/7/2016	1.00	0.77	0.50	0.76
5/8/2016	1.00	0.77	0.50	0.76
5/9/2016	1.00	0.77	0.50	0.76
5/10/2016	1.00	0.77	0.50	0.76
5/11/2016	1.00	0.77	0.50	0.76
5/12/2016	1.00	0.77	0.50	0.76
5/13/2016	0.50	0.77	0.00	0.00
5/14/2016	0.50	0.77	0.00	0.00
5/15/2016	0.50	0.77	0.00	0.00
5/16/2016	0.50	0.77	0.00	0.00
5/17/2016	0.50	0.77	0.00	0.00
5/18/2016	0.50	0.77	0.00	0.00
5/19/2016	0.50	0.77	0.00	0.00
5/20/2016	0.50	0.77	0.00	0.00
5/21/2016	0.00	0.00	0.00	0.00
5/22/2016	0.00	0.00	0.00	0.00
5/23/2016	0.00	0.00	0.00	0.00
5/24/2016	0.00	0.00	0.00	0.00
5/25/2016	0.00	0.00	0.00	0.00
5/26/2016	13.50	9.55	7.25	11.07
5/27/2016	13.50	9.55	7.25	11.07
5/28/2016	13.50	9.55	7.25	11.07
5/29/2016	13.50	9.55	7.25	11.07
5/30/2016	13.50	9.55	7.25	11.07
5/31/2016	13.50	9.55	7.25	11.07
Total Diversion AF=	192.46	72.64	98.18	75.60
Max Diversion AF=	445.00	Actual Diversion AF=	290.65	AF
Max Monthly CU AF	342.65	Actual CU AF=	148.24	AF

End of Month Adjustment= 0.00 AF

CU factor for May = 77.0%
 Cumulative Annual Diversion AF= 838.65
 Maximum Annual Diversion AF= 5006

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
June, 2016**

Date	Keesee in Priority	Computed CU Water to	Keesee	Computed CU
	(cfs)	Account 53	Bypassed	Water to
		(ac-ft)	for In-State	Reach 11
			(cfs)	(ac-ft)
6/1/2016	13.50	9.78	6.75	9.77
6/2/2016	13.50	9.78	6.75	9.77
6/3/2016	13.50	9.78	6.75	9.77
6/4/2016	2.53	3.66	0.00	0.00
6/5/2016	0.00	0.00	0.00	0.00
6/6/2016	0.00	0.00	0.00	0.00
6/7/2016	0.00	0.00	0.00	0.00
6/8/2016	0.00	0.00	0.00	0.00
6/9/2016	0.00	0.00	0.00	0.00
6/10/2016	13.50	9.78	6.75	9.77
6/11/2016	13.50	9.78	6.75	9.77
6/12/2016	13.50	9.78	6.75	9.77
6/13/2016	13.50	9.78	6.75	9.77
6/14/2016	13.50	9.78	6.75	9.77
6/15/2016	13.50	9.78	6.75	9.77
6/16/2016	0.00	0.00	0.00	0.00
6/17/2016	0.00	0.00	0.00	0.00
6/18/2016	0.00	0.00	0.00	0.00
6/19/2016	0.00	0.00	0.00	0.00
6/20/2016	0.00	0.00	0.00	0.00
6/21/2016	0.00	0.00	0.00	0.00
6/22/2016	0.00	0.00	0.00	0.00
6/23/2016	0.00	0.00	0.00	0.00
6/24/2016	0.00	0.00	0.00	0.00
6/25/2016	13.50	9.78	6.75	9.77
6/26/2016	13.50	9.78	6.75	9.77
6/27/2016	13.50	9.78	6.75	9.77
6/28/2016	13.50	9.78	6.75	9.77
6/29/2016	13.50	9.78	6.75	9.77
6/30/2016	13.50	9.78	6.75	9.77
Total Diversion AF=	406.68	150.30	200.83	146.61
Max Diversion AF=	1350.00	Actual Diversion AF=	607.51	AF
Max Monthly CU AF=	985.50	Actual CU AF=	296.91	AF

End of Month Adjustment= 0.00 AF

CU factor for June = 73.0%
 Cumulative Annual Diversion AF= 1446.16
 Maximum Annual Diversion AF= 5006

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
July, 2016**

Date	Keesee in Priority	Computed CU Water to Account 53	Keesee Bypassed for In-State	Computed CU Water to Reach 11
	(cfs)	(ac-ft)	(cfs)	(ac-ft)
7/1/2016	13.50	9.91	6.75	9.91
7/2/2016	13.50	9.91	6.75	9.91
7/3/2016	13.50	9.91	6.75	9.91
7/4/2016	13.50	9.91	6.75	9.91
7/5/2016	13.50	9.91	6.75	9.91
7/6/2016	0.00	0.00	0.00	0.00
7/7/2016	0.00	0.00	0.00	0.00
7/8/2016	0.00	0.00	0.00	0.00
7/9/2016	0.00	0.00	0.00	0.00
7/10/2016	0.00	0.00	0.00	0.00
7/11/2016	13.50	9.91	6.75	9.91
7/12/2016	13.50	9.91	6.75	9.91
7/13/2016	13.50	9.91	6.75	9.91
7/14/2016	0.00	0.00	0.00	0.00
7/15/2016	0.00	0.00	0.00	0.00
7/16/2016	0.00	0.00	0.00	0.00
7/17/2016	0.00	0.00	0.00	0.00
7/18/2016	0.00	0.00	0.00	0.00
7/19/2016	0.00	0.00	0.00	0.00
7/20/2016	0.00	0.00	0.00	0.00
7/21/2016	0.00	0.00	0.00	0.00
7/22/2016	0.00	0.00	0.00	0.00
7/23/2016	0.00	0.00	0.00	0.00
7/24/2016	0.00	0.00	0.00	0.00
7/25/2016	0.00	0.00	0.00	0.00
7/26/2016	0.00	0.00	0.00	0.00
7/27/2016	0.00	0.00	0.00	0.00
7/28/2016	0.00	0.00	0.00	0.00
7/29/2016	0.00	0.00	0.00	0.00
7/30/2016	0.00	0.00	0.00	0.00
7/31/2016	0.00	0.00	0.00	0.00
Total Diversion AF=	214.22	79.30	107.11	79.26
Max Diversion AF=	890.00	Actual Diversion AF=	321.33	AF
Max Monthly CU AF=	658.60	Actual CU AF=	158.56	AF

End of Month Adjustment= 0.00 AF

CU factor for July = 74.0%
 Cumulative Annual Diversion AF= 1767.49 Adjusted Max 625
 Maximum Annual Diversion AF= 5006

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
August, 2016**

Date	Keesee in Priority	Computed CU Water to Account 53	Keesee Bypassed for In-State	Computed CU Water to Reach 11
	(cfs)	(ac-ft)	(cfs)	(ac-ft)
8/1/2016	0.00	0.00	0.00	0.00
8/2/2016	0.00	0.00	0.00	0.00
8/3/2016	0.00	0.00	0.00	0.00
8/4/2016	0.00	0.00	0.00	0.00
8/5/2016	0.00	0.00	0.00	0.00
8/6/2016	0.00	0.00	0.00	0.00
8/7/2016	0.00	0.00	0.00	0.00
8/8/2016	0.00	0.00	0.00	0.00
8/9/2016	0.00	0.00	0.00	0.00
8/10/2016	0.00	0.00	0.00	0.00
8/11/2016	0.00	0.00	0.00	0.00
8/12/2016	0.00	0.00	0.00	0.00
8/13/2016	0.00	0.00	0.00	0.00
8/14/2016	0.00	0.00	0.00	0.00
8/15/2016	0.00	0.00	0.00	0.00
8/16/2016	0.00	0.00	0.00	0.00
8/17/2016	0.00	0.00	0.00	0.00
8/18/2016	0.00	0.00	0.00	0.00
8/19/2016	0.00	0.00	0.00	0.00
8/20/2016	0.00	0.00	0.00	0.00
8/21/2016	0.00	0.00	0.00	0.00
8/22/2016	0.00	0.00	0.00	0.00
8/23/2016	0.00	0.00	0.00	0.00
8/24/2016	0.00	0.00	0.00	0.00
8/25/2016	0.00	0.00	0.00	0.00
8/26/2016	0.00	0.00	0.00	0.00
8/27/2016	0.00	0.00	0.00	0.00
8/28/2016	0.00	0.00	0.00	0.00
8/29/2016	0.00	0.00	0.00	0.00
8/30/2016	0.00	0.00	0.00	0.00
8/31/2016	0.00	0.00	0.00	0.00
Total Diversion AF=	0.00	0.00	0.00	0.00
Max Diversion AF=	891.00	Actual Diversion AF=	0.00	AF
Max Monthly CU AF=	623.70	Actual CU AF=	0.00	AF

End of Month Adjustment= 0.00 AF

CU factor for August = 70.0%
 Cumulative Annual Diversion AF= 1767.49
 Maximum Annual Diversion AF= 5006

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
September, 2016**

Date	Keesee in Priority	Computed CU Water to Account 53 or 55	Keesee Bypassed for In-State	Computed CU Water to Reach 11
	(cfs)	(ac-ft)	(cfs)	(ac-ft)
9/1/2016	0.00	0.00	0.00	0.00
9/2/2016	0.00	0.00	0.00	0.00
9/3/2016	0.00	0.00	0.00	0.00
9/4/2016	0.00	0.00	0.00	0.00
9/5/2016	0.00	0.00	0.00	0.00
9/6/2016	0.00	0.00	0.00	0.00
9/7/2016	0.00	0.00	0.00	0.00
9/8/2016	0.00	0.00	0.00	0.00
9/9/2016	0.00	0.00	0.00	0.00
9/10/2016	0.00	0.00	0.00	0.00
9/11/2016	0.00	0.00	0.00	0.00
9/12/2016	0.00	0.00	0.00	0.00
9/13/2016	0.00	0.00	0.00	0.00
9/14/2016	0.00	0.00	0.00	0.00
9/15/2016	0.00	0.00	0.00	0.00
9/16/2016	0.00	0.00	0.00	0.00
9/17/2016	0.00	0.00	0.00	0.00
9/18/2016	0.00	0.00	0.00	0.00
9/19/2016	0.00	0.00	0.00	0.00
9/20/2016	0.00	0.00	0.00	0.00
9/21/2016	0.00	0.00	0.00	0.00
9/22/2016	0.00	0.00	0.00	0.00
9/23/2016	0.00	0.00	0.00	0.00
9/24/2016	0.00	0.00	0.00	0.00
9/25/2016	0.00	0.00	0.00	0.00
9/26/2016	0.00	0.00	0.00	0.00
9/27/2016	0.00	0.00	0.00	0.00
9/28/2016	0.00	0.00	0.00	0.00
9/29/2016	0.00	0.00	0.00	0.00
9/30/2016	0.00	0.00	0.00	0.00
Total Diversion AF=	0.00	0.00	0.00	0.00
Max Diversion AF=	862.00	Actual Diversion AF=	0.00	AF
Max Monthly CU AF=	560.30	Actual CU AF=	0.00	AF

End of Month Adjustment= 0.00 AF

CU factor for September = 65.0%
 Cumulative Annual Diversion AF= 1767.49
 Maximum Annual Diversion AF= 5006

**Deliveries from Keesee Ditch for Consumptive Use Credit
to Offset Account or to Reach 11
October, 2016**

Date	Keesee in Priority	Computed CU Water to	Keesee	Computed
	(cfs)	Account 53 or 55	Bypassed	CU Water to
		(ac-ft)	for In-State	Reach 11
			(cfs)	(ac-ft)
10/1/2016	0.00	0.00	0.00	0.00
10/2/2016	0.00	0.00	0.00	0.00
10/3/2016	0.00	0.00	0.00	0.00
10/4/2016	0.00	0.00	0.00	0.00
10/5/2016	0.00	0.00	0.00	0.00
10/6/2016	0.00	0.00	0.00	0.00
10/7/2016	0.00	0.00	0.00	0.00
10/8/2016	0.00	0.00	0.00	0.00
10/9/2016	0.00	0.00	0.00	0.00
10/10/2016	0.00	0.00	0.00	0.00
10/11/2016	0.00	0.00	0.00	0.00
10/12/2016	0.00	0.00	0.00	0.00
10/13/2016	0.00	0.00	0.00	0.00
10/14/2016	0.00	0.00	0.00	0.00
10/15/2016	0.00	0.00	0.00	0.00
10/16/2016	0.00	0.00	0.00	0.00
10/17/2016	0.00	0.00	0.00	0.00
10/18/2016	0.00	0.00	0.00	0.00
10/19/2016	0.00	0.00	0.00	0.00
10/20/2016	0.00	0.00	0.00	0.00
10/21/2016	0.00	0.00	0.00	0.00
10/22/2016	0.00	0.00	0.00	0.00
10/23/2016	0.00	0.00	0.00	0.00
10/24/2016	0.00	0.00	0.00	0.00
10/25/2016	0.00	0.00	0.00	0.00
10/26/2016	0.00	0.00	0.00	0.00
10/27/2016	0.00	0.00	0.00	0.00
10/28/2016	0.00	0.00	0.00	0.00
10/29/2016	0.00	0.00	0.00	0.00
10/30/2016	0.00	0.00	0.00	0.00
10/31/2016	0.00	0.00	0.00	0.00
Total Diversion AF=	0.00	0.00	0.00	0.00
Max Diversion AF=	890.00	Actual Diversion AF=	0.00	AF
Max Monthly CU AF=	511.75	Actual CU AF=	0.00	AF

End of Month Adjustment= 0.00 AF

CU factor for October = 57.5%
 Cumulative Annual Diversion AF= 1767.49
 Maximum Annual Diversion AF= 5006
 End of Year Adjustment= 0.00 AF

SECTION 4



DIVISION OF WATER RESOURCES

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Steven J. Witte, P.E.
Division Engineer

March 10, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for November 2015

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of November, 2015.

Table 1 shows the amount of pumping during the month of November 2015 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in November. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in November.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

During the month of November, 2015 the Highland Canal conveyed 3.71 acre-feet of inflows to the Offset account. An adjustment was made to the content of the account on November 1, 2015 as described in my letter to you dated November 23, 2015 regarding the 2015 credits associated with the Highland Canal water rights. In that letter we conveyed the agreed upon reduction that needed to be made due to some issues with dry-up and minor errors in the monthly accounting. The transfer of 806.59 acre-feet to Conservation Storage occurred as scheduled at the beginning of the Compact Year.

As of November 30, 2015, a total of 5825.07 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of November is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
November 2015

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	163.06	75.84
2	BOOTH ORCHARD	0.10	0.06
3	EXCELSIOR	13.73	11.50
4	COLLIER	0.00	0.00
5	COLORADO	67.53	33.77
6	ROCKY FORD HIGHLINE	20.15	7.25
7	OXFORD	0.35	0.33
8	OTERO	1.40	0.54
9	CATLIN	91.78	43.68
10	FORT LYON US	10.69	4.70
11	ROCKY FORD	7.15	6.06
12	HOLBROOK	0.00	0.00
13	LAS ANIMAS CONSOLIDATED	9.54	4.99
14	BALDWIN-STUBBS	42.24	42.21
15	FORT BENT	0.00	0.00
16	KEESEEE	0.00	0.00
17	AMITY	25.17	11.97
18	LAMAR/MANVEL	35.64	14.58
19	HYDE	1.93	0.69
20	FORT LYON DS	6.25	2.25
21	XY GRAHAM	0.00	0.00
22	BUFFALO	0.00	0.00
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	0.00	0.00
601	LAWMA A.P.D.	0.00	0.00
602	LAWMA A.P.D.	0.00	0.00
	Totals	496.71	260.42

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
November 2015

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.02	0.00	0.00	7.84	14.58	3.83	2.25	0.00	0.00	0.00	0.00	28.52

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
November 2015

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from September, 2015		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Remaining Depletion		18.20	35.77	143.70	138.44	80.83	100.50	190.29	890.39	43.07	1641.18	
Depletion to Usable SL Flow		6.35	12.48	50.15	48.31	28.21	35.08	66.41	310.75	15.03	572.77	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0.00	8.81	5.40	16.18	8.32						38.71	0.00
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0.00				0.00						0.00	0.00
DOW - Lamar Center Farm	0.00				0.00						0.00	0.00
Lamar Granada Aug Stations	0.00							0.00			0.00	0.00
LAWMA-Ft Bent Ditch Shares	0.00				0.00						0.00	0.00
LAWMA-Stubbs Direct Flow	0.00								0.00		0.00	0.00
LAWMA-XY Direct Flow	0.00					0.00					0.00	0.00
LAWMA-Manvel Direct Flow	0.00					0.00					0.00	0.00
Offset Account Release Credit*	36328.72									535.15	535.15	36328.72
Offset Account Transit Loss	0.00											0.00
Offset Account Water	0.00	0.00									0.00	0.00
Total Replacements	0.00	8.81	5.40	16.18	8.32	0.00	0.00	0.00	0.00	535.15	573.86	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that 746.72 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for November 2015



DIVISION OF WATER RESOURCES

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Steven J. Witte, P.E.
Division Engineer

March 10, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for December 2015

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of December, 2015.

Table 1 shows the amount of pumping during the month of December 2015 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in December. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in December.

March 10, 2016

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

During the month of December, 2015 there were no deliveries or transfers to the Offset account.

As of December 31, 2015, a total of 5791.72 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of December is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven J. Witte". The signature is fluid and cursive, with the first name being the most prominent.

Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
December 2015

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	48.22	22.15
2	BOOTH ORCHARD	18.74	9.38
3	EXCELSIOR	24.76	18.63
4	COLLIER	0.00	0.00
5	COLORADO	76.84	38.46
6	ROCKY FORD HIGHLINE	0.02	0.01
7	OXFORD	52.06	23.98
8	OTERO	0.00	0.00
9	CATLIN	27.24	13.77
10	FORT LYON US	0.59	0.39
11	ROCKY FORD	0.29	0.15
12	HOLBROOK	0.00	0.00
13	LAS ANIMAS CONSOLIDATED	0.00	0.00
14	BALDWIN-STUBBS	0.00	0.00
15	FORT BENT	0.00	0.00
16	KEESEEE	0.00	0.00
17	AMITY	4.12	2.55
18	LAMAR/MANVEL	0.39	0.14
19	HYDE	0.00	0.00
20	FORT LYON DS	174.95	70.62
21	XY GRAHAM	0.00	0.00
22	BUFFALO	0.36	0.13
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	0.00	0.00
601	LAWMA A.P.D.	0.00	0.00
602	LAWMA A.P.D.	0.00	0.00
	Totals	428.58	200.36

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
December 2015

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.03	0.00	0.00	1.03	0.14	0.12	41.88	0.00	0.13	0.00	0.00	43.33

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
December 2015

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from September, 2015		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Remaining Depletion		15.88	30.85	118.15	116.59	69.31	88.23	163.61	692.14	44.15	1338.91	
Depletion to Usable SL Flow		5.54	10.77	41.23	40.69	24.19	30.79	57.10	241.56	15.41	467.28	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0.00	6.86	4.65	12.64	6.53						30.68	0.00
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0.00				0.00						0.00	0.00
DOW - Lamar Center Farm	0.00				0.00						0.00	0.00
Lamar Granada Aug Stations	0.00							0.00			0.00	0.00
LAWMA-Ft Bent Ditch Shares	0.00				0.00						0.00	0.00
LAWMA-Stubbs Direct Flow	0.00								0.00		0.00	0.00
LAWMA-XY Direct Flow	0.00					0.00					0.00	0.00
LAWMA-Manvel Direct Flow	0.00					0.00					0.00	0.00
Offset Account Release Credit*	36596.01									437.56	437.56	36596.01
Offset Account Transit Loss	0.00											0.00
Offset Account Water	0.00	0.00									0.00	0.00
Total Replacements	0.00	6.86	4.65	12.64	6.53	0.00	0.00	0.00	0.00	437.56	468.24	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that 576.35 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for December 2015



DIVISION OF WATER RESOURCES

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Steven J. Witte, P.E.
Division Engineer

March 10, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
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Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
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RE: Monthly Report of Colorado Pumping and Offset Account Operations for January 2016

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Table 1 shows the amount of pumping during the month of January 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in January. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in January.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

During the month of January, 2016 there were no deliveries or transfers to the Offset account.

As of January 31, 2016, a total of 5762.69 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of January is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven J. Witte". The signature is written in a cursive, flowing style.

Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
January 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	9.68	4.71
2	BOOTH ORCHARD	0.26	0.22
3	EXCELSIOR	6.16	6.16
4	COLLIER	0.00	0.00
5	COLORADO	0.18	0.13
6	ROCKY FORD HIGHLINE	0.06	0.03
7	OXFORD	3.62	1.30
8	OTERO	0.00	0.00
9	CATLIN	19.13	7.08
10	FORT LYON US	1.03	1.02
11	ROCKY FORD	0.00	0.00
12	HOLBROOK	0.00	0.00
13	LAS ANIMAS CONSOLIDATED	0.00	0.00
14	BALDWIN-STUBBS	0.00	0.00
15	FORT BENT	35.91	17.96
16	KEESEEE	0.00	0.00
17	AMITY	1.29	0.89
18	LAMAR/MANVEL	0.00	0.00
19	HYDE	0.71	0.32
20	FORT LYON DS	11.31	40.07
21	XY GRAHAM	1.48	0.96
22	BUFFALO	2.12	0.09
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	0.12	0.09
601	LAWMA A.P.D.	0.00	0.00
602	LAWMA A.P.D.	0.00	0.00
	Totals	193.06	81.70

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
January 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	0.00	0.00	0.89	0.00	0.32	31.13	0.48	0.76	0.00	0.09	33.67

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
January 2015

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from September, 2015		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Remaining Depletion		14.69	28.49	104.91	102.99	58.77	78.50	147.69	692.14	41.11	1269.28	
Depletion to Usable SL Flow		5.13	9.94	36.61	35.94	20.51	27.40	51.54	241.56	14.35	442.98	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0.00	5.63	4.35	11.00	5.71						26.69	0.00
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0.00				0.00						0.00	0.00
DOW - Lamar Center Farm	0.00				0.00						0.00	0.00
Lamar Granada Aug Stations	0.00							0.00			0.00	0.00
LAWMA-Ft Bent Ditch Shares	0.00				0.00						0.00	0.00
LAWMA-Stubbs Direct Flow	0.00								0.00		0.00	0.00
LAWMA-XY Direct Flow	0.00					0.00					0.00	0.00
LAWMA-Manvel Direct Flow	0.00					0.00					0.00	0.00
Offset Account Release Credit*	36617.28									416.29	416.29	36617.28
Offset Account Transit Loss	0.00											0.00
Offset Account Water	0.00	0.00									0.00	0.00
Total Replacements	0.00	5.63	4.35	11.00	5.71	0.00	0.00	0.00	0.00	416.29	442.98	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that 669.7 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for January 2016



DIVISION OF WATER RESOURCES

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Steven J. Witte, P.E.
Division Engineer

June 1, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for February 2016

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Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

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These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in February. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in February.

June 1, 2016

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

During the month of February, 2016 there were no deliveries or transfers to the Offset account.

As of February 29, 2016, a total of 5713.87 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of January is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven J. Witte". The signature is fluid and cursive, with the first name "Steven" and last name "Witte" clearly distinguishable.

Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
February 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	127.01	61.37
2	BOOTH ORCHARD	21.23	13.51
3	EXCELSIOR	21.60	17.19
4	COLLIER	0.00	0.00
5	COLORADO	24.88	12.47
6	ROCKY FORD HIGHLINE	31.55	11.37
7	OXFORD	9.08	3.25
8	OTERO	0.14	0.07
9	CATLIN	594.01	231.30
10	FORT LYON US	41.14	14.85
11	ROCKY FORD	4.86	4.09
12	HOLBROOK	24.89	9.98
13	LAS ANIMAS CONSOLIDATED	4.36	3.19
14	BALDWIN-STUBBS	1.37	0.91
15	FORT BENT	259.45	154.69
16	KEESEEE	0.00	0.00
17	AMITY	836.80	463.75
18	LAMAR/MANVEL	406.65	203.63
19	HYDE	1.70	0.61
20	FORT LYON DS	128.67	53.79
21	XY GRAHAM	11.70	8.78
22	BUFFALO	6.06	2.18
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	138.31	103.74
601	LAWMA A.P.D.	0.00	0.00
602	LAWMA A.P.D.	0.00	0.00
	Totals	2695.46	1374.72

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
February 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	80.40	0.00	578.12	121.12	0.28	47.96	4.68	2.18	0.00	162.07	996.81

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
February 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from September, 2015		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Remaining Depletion		13.78	26.60	122.29	102.14	56.00	74.78	148.31	518.09	36.84	1098.82	
Depletion to Usable SL Flow		4.81	9.28	42.68	35.65	19.55	26.10	51.76	180.81	12.86	383.49	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0.00	5.63	4.35	11.00	5.71						26.69	0.00
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0.00				0.00						0.00	0.00
DOW - Lamar Center Farm	0.00				0.00						0.00	0.00
Lamar Granada Aug Stations	0.00							0.00			0.00	0.00
LAWMA-Ft Bent Ditch Shares	0.00				0.00						0.00	0.00
LAWMA-Stubbs Direct Flow	0.00								0.00		0.00	0.00
LAWMA-XY Direct Flow	0.00					0.00					0.00	0.00
LAWMA-Manvel Direct Flow	0.00					0.00					0.00	0.00
Offset Account Release Credit*	36797.12									356.8	356.80	36797.12
Offset Account Transit Loss	0.00											0.00
Offset Account Water	0.00	0.00									0.00	0.00
Total Replacements	0.00	5.63	4.35	11.00	5.71	0.00	0.00	0.00	0.00	356.80	383.49	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that 414.33 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for February 2016



DIVISION OF WATER RESOURCES

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Steven J. Witte, P.E.
Division Engineer

June 1, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for March 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of March, 2016.

Table 1 shows the amount of pumping during the month of March 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in March. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in March.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) transferred 575.43 acre-feet of fully consumable water from their Keesee Article II account to the Kansas Charge sub-account on March 31, 2016. As of March 31, 2016, a total of 6205.92 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of March is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven J. Witte". The signature is fluid and cursive, with the first name "Steven" and last name "Witte" clearly distinguishable.

Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
March 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	829.06	381.61
2	BOOTH ORCHARD	38.59	26.82
3	EXCELSIOR	102.51	53.98
4	COLLIER	0.00	0.00
5	COLORADO	157.07	83.12
6	ROCKY FORD HIGHLINE	544.99	206.03
7	OXFORD	496.78	180.89
8	OTERO	45.13	16.25
9	CATLIN	1500.35	805.41
10	FORT LYON US	1377.02	584.05
11	ROCKY FORD	0.00	0.00
12	HOLBROOK	358.37	191.94
13	LAS ANIMAS CONSOLIDATED	54.99	25.47
14	BALDWIN-STUBBS	349.84	235.03
15	FORT BENT	430.78	263.77
16	KEESEEE	0.00	0.00
17	AMITY	2856.56	1476.07
18	LAMAR/MANVEL	564.71	339.40
19	HYDE	163.38	120.19
20	FORT LYON DS	1424.03	792.33
21	XY GRAHAM	755.84	522.76
22	BUFFALO	587.20	211.89
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	1286.37	947.88
601	LAWMA A.P.D.	0.00	0.00
602	LAWMA A.P.D.	16.27	12.20
	Totals	14020.90	7535.16

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
March 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	147.29	0.00	1403.83	204.60	143.40	787.86	261.38	211.89	0.00	947.88	4108.13

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
March 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from September, 2015		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Remaining Depletion		18.91	38.35	206.02	148.00	64.32	84.78	211.69	643.79	29.42	1445.29	
Depletion to Usable SL Flow		6.60	13.38	71.90	51.65	22.45	29.59	73.88	224.68	10.27	504.41	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0.00	3.42	3.09	8.30	4.20						19.02	0.00
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0.00				0.00						0.00	0.00
DOW - Lamar Center Farm	0.00				0.00						0.00	0.00
Lamar Granada Aug Stations	0.00							0.00			0.00	0.00
LAWMA-Ft Bent Ditch Shares	0.00				0.00						0.00	0.00
LAWMA-Stubbs Direct Flow	0.00								0.00		0.00	0.00
LAWMA-XY Direct Flow	0.00					0.00					0.00	0.00
LAWMA-Manvel Direct Flow	0.00					0.00					0.00	0.00
Offset Account Release Credit*	36504.07									485.39	485.39	36504.07
Offset Account Transit Loss	0.00											0.00
Offset Account Water	0.00	0.00									0.00	0.00
Total Replacements	0.00	3.42	3.09	8.30	4.20	0.00	0.00	0.00	0.00	485.39	504.41	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that 578.79 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for March 2016



COLORADO

Division of Water Resources

Department of Natural Resources

Water Division 2 - Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

October 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for April 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”). This letter reports the monthly pumping in excess of Colorado’s pre-Compact entitlement, Colorado’s monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of April, 2016.

Table 1 shows the amount of pumping during the month of April 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all of the days in April. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in April.



Mr. David Barfield and Ms. Stephanie Gonzales
October 28, 2016

Page 2

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 2050.91 acre-feet of fully consumable water to the Colorado Downstream Consumable sub-account in April, 2016. These deliveries consisted of 576.89 acre-feet from LAWMA's Highland Canal water right and 1474.02 acre-feet from a delivery of fully consumable water purchased from Colorado Springs Utilities and delivered from Lake Meredith. The delivery from Lake Meredith began to arrive at John Martin Reservoir on April 15, 2016 and continued until April 18, 2016.

As of April 30, 2016, a total of 8118.19 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of April is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
April 2016

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	139.37	65.38
2	BOOTH	4.35	2.26
3	EXCELSIOR	0.00	0.00
4	COLLIER	75.32	26.74
5	COLORADO	264.93	103.17
6	ROCKY FORD HIGHLINE	105.22	37.87
7	OXFORD	51.72	22.13
8	OTERO	7.48	2.66
9	CATLIN	460.37	207.86
10	FORT LYON U/S	219.56	103.16
11	ROCKY FORD	3.97	1.99
12	HOLBROOK	103.91	69.24
13	LAS ANIMAS CONSOLIDATED	30.30	14.58
14	BALDWIN STUBBS	25.05	18.52
15	FORT BENT	5.78	3.31
16	KEESEEE	498.51	299.94
17	AMITY	174.21	127.52
18	LAMAR	2.63	1.92
19	HYDE	340.71	160.10
20	FORT LYON D/S	106.37	73.14
21	X-Y GRAHAM	0.62	0.28
22	BUFFALO	862.95	647.23
24	STATELINE PUMPERS	0.00	0.00
601	WILEY DRAIN	26.33	19.75
602	SAPP DITCH	139.37	65.38
	Totals	3509.66	2008.75

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
April 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	1.67	0.00	292.31	127.52	1.92	126.81	73.14	0.28	0.00	627.23	1250.88

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
April 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Remaining Depletion		0.00	0.00	0.00	164.15	71.59	94.09	239.12	753.69	25.27	1347.92	
Depletion to Usable SL Flow		0.00	0.00	0.00	134.44	58.63	77.06	195.84	617.27	20.70	1103.94	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0.00
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0				0						0.00	0.00
Lamar Center Farm	0				432.05						432.05	0.00
Lamar Granada Aug Stations									40.73		40.73	0.00
Ft Bent Ditch Shares	0				0						0.00	0.00
Stubbs Direct Flow	0								88		88.00	0.00
XY Direct Flow	0					0					0.00	0.00
Manvel Direct Flow	0					87.5					87.50	0.00
Offset Account Release Credit*	25407.65									469.55	469.55	24938.10
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0.00
Offset Account Water	0	0									0.00	0.00
Total Replacements	0	0.00	0.00	0.00	432.05	87.50	0.00	0.00	128.73	469.55	1117.83	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for April 2016

Offset Account

April 2016

OffsetAccount-Totals							OffsetAccount-Consumable Upstream						OffsetAccount-Consumable Kansas							
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6205.92							0.00							0.00
1	0.00	0.00	0.00	0.00	3.79	6202.13	1	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00
2	17.41	0.00	0.00	0.00	3.79	6215.75	2	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00
3	21.48	0.00	0.00	0.00	3.79	6233.44	3	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00
4	26.34	0.00	0.00	0.00	4.96	6254.82	4	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00
5	24.08	0.00	0.00	0.00	6.13	6272.77	5	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00
6	22.50	0.00	0.00	0.00	4.01	6291.26	6	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00
7	21.03	0.00	0.00	0.00	3.89	6308.40	7	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00
8	16.51	0.00	0.00	0.00	3.62	6321.29	8	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00
9	14.58	0.00	0.00	0.00	3.64	6332.23	9	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00
10	14.16	0.00	0.00	0.00	3.80	6342.59	10	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	12.88	0.00	0.00	0.00	3.96	6351.51	11	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00
12	13.88	0.00	0.00	0.00	3.68	6361.71	12	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	14.40	0.00	0.00	0.00	3.69	6372.42	13	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	0.00
14	13.88	0.00	0.00	0.00	7.98	6378.32	14	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00
15	95.65	0.00	0.00	0.00	4.00	6469.97	15	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
16	504.83	0.00	0.00	0.00	4.05	6970.75	16	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00
17	509.71	0.00	0.00	0.00	4.36	7476.10	17	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00
18	427.56	0.00	0.00	0.00	0.70	7902.96	18	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00
19	17.13	0.00	0.00	0.00	1.83	7918.26	19	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
20	18.40	0.00	0.00	0.00	4.22	7932.44	20	0.00	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
21	28.20	0.00	0.00	0.00	5.15	7955.49	21	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00	0.00
22	27.40	0.00	0.00	0.00	7.94	7974.95	22	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	27.40	0.00	0.00	0.00	7.97	7994.38	23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	27.40	0.00	0.00	0.00	7.99	8013.79	24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	27.40	0.00	0.00	0.00	9.32	8031.87	25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	25.00	0.00	0.00	0.00	4.88	8051.99	26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	21.50	0.00	0.00	0.00	6.21	8067.28	27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	20.47	0.00	0.00	0.00	4.91	8082.84	28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	18.04	0.00	0.00	0.00	2.09	8098.79	29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	21.69	0.00	0.00	0.00	2.29	8118.19	30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
2050.91 0.00 0.00 0.00 138.64							0.00 0.00 0.00 0.00 0.00						0.00 0.00 0.00 0.00 0.00							

OffsetAccount-Consumable Totals							OffsetAccount-Consumable Downstream						OffsetAccount-Consumable Kansas Charge							
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6130.39							5630.39							500.00
1	0.00	0.00	0.00	0.00	3.75	6126.64	1	0.00	0.00	0.00	0.00	3.44	5626.95	1	0.00	0.00	0.00	0.00	0.31	499.69
2	17.41	0.00	0.00	0.00	3.75	6140.30	2	17.41	0.00	0.00	0.00	3.44	5640.92	2	0.00	0.00	0.00	0.00	0.31	499.38
3	21.48	0.00	0.00	0.00	3.75	6158.03	3	21.48	0.00	0.00	0.00	3.44	5658.96	3	0.00	0.00	0.00	0.00	0.31	499.07
4	26.34	0.00	0.00	0.00	4.90	6179.47	4	26.34	0.00	0.00	0.00	4.50	5680.80	4	0.00	0.00	0.00	0.00	0.40	498.67
5	24.08	0.00	0.00	0.00	6.06	6197.49	5	24.08	0.00	0.00	0.00	5.57	5699.31	5	0.00	0.00	0.00	0.00	0.49	498.18
6	22.50	0.00	0.00	0.00	3.96	6216.03	6	22.50	0.00	0.00	0.00	3.64	5718.17	6	0.00	0.00	0.00	0.00	0.32	497.86
7	21.03	0.00	0.00	0.00	3.85	6233.21	7	21.03	0.00	0.00	0.00	3.54	5735.66	7	0.00	0.00	0.00	0.00	0.31	497.55
8	16.51	0.00	0.00	0.00	3.58	6246.14	8	16.51	0.00	0.00	0.00	3.29	5748.88	8	0.00	0.00	0.00	0.00	0.29	497.26
9	14.58	0.00	0.00	0.00	3.60	6257.12	9	14.58	0.00	0.00	0.00	3.31	5760.15	9	0.00	0.00	0.00	0.00	0.29	496.97
10	14.16	0.00	0.00	0.00	3.76	6267.52	10	14.16	0.00	0.00	0.00	3.46	5770.85	10	0.00	0.00	0.00	0.00	0.30	496.67
11	12.88	0.00	0.00	0.00	3.92	6276.48	11	12.88	0.00	0.00	0.00	3.61	5780.12	11	0.00	0.00	0.00	0.00	0.31	496.36
12	13.88	0.00	0.00	0.00	3.64	6286.72	12	13.88	0.00	0.00	0.00	3.35	5790.65	12	0.00	0.00	0.00	0.00	0.29	496.07
13	14.40	0.00	0.00	0.00	3.65	6297.47	13	14.40	0.00	0.00	0.00	3.36	5801.69	13	0.00	0.00	0.00	0.00	0.29	495.78
14	13.88	0.00	0.00	0.00	7.89	6303.46	14	13.88	0.00	0.00	0.00	7.27	5808.30	14	0.00	0.00	0.00	0.00	0.62	495.16
15	95.65	0.00	0.00	0.00	3.96	6395.15	15	95.65	0.00	0.00	0.00	3.65	5900.30	15	0.00	0.00	0.00	0.00	0.31	494.85
16	504.83	0.00	0.00	0.00	4.01	6895.97	16	504.83	0.00	0.00	0.00	3.70	6401.43	16	0.00	0.00	0.00	0.00	0.31	494.54
17	509.71	0.00	0.00	0.00	4.32	7401.36	17	509.71	0.00	0.00	0.00	4.01	6907.13	17	0.00	0.00	0.00	0.00	0.31	494.23
18	427.56	0.00	0.00	0.00	0.69	7828.23	18	427.56	0.00	0.00	0.00	0.64	7334.05	18	0.00	0.00	0.00	0.00	0.05	494.18
19	17.13	0.00	0.00	0.00	1.81	7843.55	19	17.13	0.00	0.00	0.00	1.70	7349.48	19	0.00	0.00	0.00	0.00	0.11	494.07
20	18.40	0.00	0.00	0.00	4.18	7857.77	20	18.40	0.00	0.00	0.00	3.92	7363.96	20	0.00	0.00	0.00	0.00	0.26	493.81
21	28.20	0.00	0.00	0.00	5.10	7880.87	21	28.20	0.00	0.00	0.00	4.78	7387.38	21	0.00	0.00	0.00	0.00	0.32	493.49
22	27.40	0.00	0.00	0.00	7.87	7900.40	22	27.40	0.00	0.00	0.00	7.38	7407.40	22	0.00	0.00	0.00	0.00	0.49	493.00
23	27.40	0.00	0.00	0.00	7.90	7919.90	23	27.40	0.00	0.00	0.00	7.41	7427.39	23	0.00	0.00	0.00	0.00	0.49	492.51
24	27.40	0.00	0.00	0.00	7.92	7939.38	24	27.40	0.00	0.00	0.00	7.43	7447.36	24	0.00	0.00	0.00	0.00	0.49	492.02
25	27.40	0.00	0.00	0.00	9.24	7957.54	25	27.40	0.00	0.00	0.00	8.67	7466.09	25	0.00	0.00	0.00	0.00	0.57	491.45
26	25.00	0.00	0.00	0.00	4.84	7977.70	26	25.00	0.00	0.00	0.00	4.54	7486.55	26	0.00	0.00	0.00	0.00	0.30	491.15
27	21.50	0.00	0.00	0.00	6.16	7993.04	27	21.50	0.00	0.00	0.00	5.78	7502.27	27	0.00	0.00	0.00	0.00	0.38	490.77
28	20.47	0.00	0.00	0.00	4.87	8008.64	28	20.47	0.00	0.00	0.00	4.57	7518.17	28	0.00	0.00	0.00	0.00	0.30	490.47
29	18.04	0.00	0.00	0.00	2.07	8024.61	29	18.04	0.00	0.00	0.00	1.94	7534.27	29	0.00	0.00	0.00	0.00	0.13	490.34

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						75.53							3.99
1	0.00	0.00	0.00	0.00	0.04	75.49	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.04	75.45	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.04	75.41	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.06	75.35	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.07	75.28	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.05	75.23	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.04	75.19	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.04	75.15	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.04	75.11	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.04	75.07	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.04	75.03	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.04	74.99	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.04	74.95	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.09	74.86	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.04	74.82	15	0.00	0.00	0.00	0.00	0.00	3.99
16	0.00	0.00	0.00	0.00	0.04	74.78	16	0.00	0.00	0.00	0.00	0.00	3.99
17	0.00	0.00	0.00	0.00	0.04	74.74	17	0.00	0.00	0.00	0.00	0.00	3.99
18	0.00	0.00	0.00	0.00	0.01	74.73	18	0.00	0.00	0.00	0.00	0.00	3.99
19	0.00	0.00	0.00	0.00	0.02	74.71	19	0.00	0.00	0.00	0.00	0.00	3.99
20	0.00	0.00	0.00	0.00	0.04	74.67	20	0.00	0.00	0.00	0.00	0.00	3.99
21	0.00	0.00	0.00	0.00	0.05	74.62	21	0.00	0.00	0.00	0.00	0.00	3.99
22	0.00	0.00	0.00	0.00	0.07	74.55	22	0.00	0.00	0.00	0.00	0.00	3.99
23	0.00	0.00	0.00	0.00	0.07	74.48	23	0.00	0.00	0.00	0.00	0.00	3.99
24	0.00	0.00	0.00	0.00	0.07	74.41	24	0.00	0.00	0.00	0.00	0.00	3.99
25	0.00	0.00	0.00	0.00	0.08	74.33	25	0.00	0.00	0.00	0.00	0.00	3.99
26	0.00	0.00	0.00	0.00	0.04	74.29	26	0.00	0.00	0.00	0.00	0.00	3.99
27	0.00	0.00	0.00	0.00	0.05	74.24	27	0.00	0.00	0.00	0.00	0.00	3.99
28	0.00	0.00	0.00	0.00	0.04	74.20	28	0.00	0.00	0.00	0.00	0.00	3.99
29	0.00	0.00	0.00	0.00	0.02	74.18	29	0.00	0.00	0.00	0.00	0.00	3.99
30	0.00	0.00	0.00	0.00	0.02	74.16	30	0.00	0.00	0.00	0.00	0.00	3.99
	0.00	0.00	0.00	0.00	1.37		0.00	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						71.54							0.00
1	0.00	0.00	0.00	0.00	0.04	71.50	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	71.46	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	71.42	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.06	71.36	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.07	71.29	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.05	71.24	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.04	71.20	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.04	71.16	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.04	71.12	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.04	71.08	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.04	71.04	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.04	71.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.04	70.96	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.09	70.87	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.04	70.83	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.04	70.79	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.04	70.75	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.01	70.74	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.02	70.72	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.04	70.68	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.05	70.63	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.07	70.56	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.07	70.49	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.07	70.42	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.08	70.34	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.04	70.30	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.05	70.25	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	70.21	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.02	70.19	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.02	70.17	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.37		0.00	0.00	0.00	0.00	0.00	0.00	



October 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for May 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”). This letter reports the monthly pumping in excess of Colorado’s pre-Compact entitlement, Colorado’s monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of May, 2016.

Table 1 shows the amount of pumping during the month of May 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all of the days in May. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in May.



Mr. David Barfield and Ms. Stephanie Gonzales
October 28, 2016

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The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 360.95 acre-feet of fully consumable water to the Colorado Downstream Consumable sub-account in May, 2016. These deliveries consisted of 288.25 acre-feet from LAWMA's Highland Canal water right and 72.7 acre-feet from LAWMA's Keesee Ditch water right.

As of May 31, 2016, a total of 8283.67 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of May is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
May 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	497.46	236.13
2	BOOTH ORCHARD	8.66	4.38
3	EXCELSIOR	0.08	0.04
4	COLLIER	0.00	0.00
5	COLORADO	154.99	83.50
6	ROCKY FORD HIGHLINE	61.85	22.57
7	OXFORD	15.94	12.48
8	OTERO	7.57	2.69
9	CATLIN	610.02	314.04
10	FORT LYON US	158.52	80.37
11	ROCKY FORD	1.92	0.96
12	HOLBROOK	402.11	236.94
13	LAS ANIMAS CONSOLIDATED	29.12	14.42
14	BALDWIN-STUBBS	25.77	19.33
15	FORT BENT	50.86	31.42
16	KEESEEE	371.37	231.07
17	AMITY	211.30	153.25
18	LAMAR/MANVEL	107.03	79.62
19	HYDE	226.82	139.00
20	FORT LYON DS	327.45	215.51
21	XY GRAHAM	10.32	3.97
22	BUFFALO	1136.80	843.63
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	7.19	5.40
601	LAWMA A.P.D.	497.46	236.13
602	LAWMA A.P.D.	8.66	4.38
	Totals	4423.15	2730.72

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
May 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	4.89	0.00	222.59	153.25	79.62	125.25	215.51	3.97	0.00	843.03	1648.11

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
May 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	141.12	72.94	95.37	213.09	757.31	24.98	1304.81	
Depletion to Usable SL Flow		0.00	0.00	0.00	115.58	59.74	78.10	174.52	620.24	20.46	1068.64	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				412.45						412.45	262.28
Lamar Granada East/West									14.58		14.58	158.03
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								88		88.00	0
XY Direct Flow	0					503.2					503.20	0
Manvel Direct Flow	0					87.5					87.50	0
Offset Account Release Credit*	24938.10									0	0.00	24938.10
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	412.45	590.70	0.00	0.00	102.58	0.00	1105.73	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for May 2016

OffsetAccount-Totals							OffsetAccount-Consumable Upstream							OffsetAccount-Consumable Kansas						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8118.19							0.00							0.00
1	22.18	0.00	0.00	0.00	2.10	8138.27	1	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00
2	22.49	0.00	0.00	0.00	4.60	8156.16	2	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00
3	31.25	0.00	0.00	0.00	5.54	8181.87	3	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00
4	31.42	0.00	0.00	0.00	5.92	8207.37	4	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00
5	31.42	0.00	0.00	0.00	5.94	8232.85	5	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00
6	31.53	0.00	0.00	0.00	8.87	8255.51	6	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00
7	31.64	0.00	0.00	0.00	8.90	8278.25	7	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00
8	31.56	0.00	0.00	0.00	9.13	8300.68	8	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00
9	31.23	0.00	0.00	0.00	4.09	8327.82	9	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00
10	31.23	0.00	0.00	0.00	9.20	8349.85	10	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.77	0.00	0.00	0.00	4.51	8346.11	11	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.77	0.00	0.00	0.00	6.06	8340.82	12	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.77	0.00	0.00	0.00	6.25	8335.34	13	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.77	0.00	0.00	0.00	6.25	8329.86	14	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.77	0.00	0.00	0.00	6.07	8324.56	15	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.77	0.00	0.00	0.00	0.79	8324.54	16	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.77	0.00	0.00	0.00	1.37	8323.94	17	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.77	0.00	0.00	0.00	5.09	8319.62	18	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.77	0.00	0.00	0.00	6.86	8313.53	19	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.77	0.00	0.00	0.00	10.18	8304.12	20	0.00	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	10.38	8293.74	21	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	10.39	8283.35	22	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.50	8277.85	23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	7.86	8269.99	24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	7.46	8262.53	25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	9.55	0.00	0.00	0.00	6.49	8265.59	26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	9.55	0.00	0.00	0.00	5.89	8269.25	27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	9.55	0.00	0.00	0.00	5.89	8272.91	28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	9.55	0.00	0.00	0.00	5.89	8276.57	29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	9.55	0.00	0.00	0.00	5.89	8280.23	30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	9.55	0.00	0.00	0.00	6.11	8283.67	31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	360.95	0.00	0.00	0.00	195.47			0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	
OffsetAccount-Consumable Totals							OffsetAccount-Consumable Downstream							OffsetAccount-Consumable Kansas Charge						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8044.03							7553.83							490.20
1	22.18	0.00	0.00	0.00	2.08	8064.13	1	22.18	0.00	0.00	0.00	1.95	7574.06	1	0.00	0.00	0.00	0.00	0.13	490.07
2	22.49	0.00	0.00	0.00	4.56	8082.06	2	22.49	0.00	0.00	0.00	4.28	7592.27	2	0.00	0.00	0.00	0.00	0.28	489.79
3	31.25	0.00	0.00	0.00	5.49	8107.82	3	31.25	0.00	0.00	0.00	5.16	7618.36	3	0.00	0.00	0.00	0.00	0.33	489.46
4	31.42	0.00	0.00	0.00	5.87	8133.37	4	31.42	0.00	0.00	0.00	5.52	7644.26	4	0.00	0.00	0.00	0.00	0.35	489.11
5	31.42	0.00	0.00	0.00	5.89	8158.90	5	31.42	0.00	0.00	0.00	5.54	7670.14	5	0.00	0.00	0.00	0.00	0.35	488.76
6	31.53	0.00	0.00	0.00	8.79	8181.64	6	31.53	0.00	0.00	0.00	8.26	7693.41	6	0.00	0.00	0.00	0.00	0.53	488.23
7	31.64	0.00	0.00	0.00	8.82	8204.46	7	31.64	0.00	0.00	0.00	8.29	7716.76	7	0.00	0.00	0.00	0.00	0.53	487.70
8	31.56	0.00	0.00	0.00	9.05	8226.97	8	31.56	0.00	0.00	0.00	8.51	7739.81	8	0.00	0.00	0.00	0.00	0.54	487.16
9	31.23	0.00	0.00	0.00	4.06	8254.14	9	31.23	0.00	0.00	0.00	3.82	7767.22	9	0.00	0.00	0.00	0.00	0.24	486.92
10	31.23	0.00	0.00	0.00	9.12	8276.25	10	31.23	0.00	0.00	0.00	8.58	7789.87	10	0.00	0.00	0.00	0.00	0.54	486.38
11	0.77	0.00	0.00	0.00	4.47	8272.55	11	0.77	0.00	0.00	0.00	4.21	7786.43	11	0.00	0.00	0.00	0.00	0.26	486.12
12	0.77	0.00	0.00	0.00	6.01	8267.31	12	0.77	0.00	0.00	0.00	5.66	7781.54	12	0.00	0.00	0.00	0.00	0.35	485.77
13	0.77	0.00	0.00	0.00	6.20	8261.88	13	0.77	0.00	0.00	0.00	5.84	7776.47	13	0.00	0.00	0.00	0.00	0.36	485.41
14	0.77	0.00	0.00	0.00	6.20	8256.45	14	0.77	0.00	0.00	0.00	5.84	7771.40	14	0.00	0.00	0.00	0.00	0.36	485.05
15	0.77	0.00	0.00	0.00	6.02	8251.20	15	0.77	0.00	0.00	0.00	5.67	7766.50	15	0.00	0.00	0.00	0.00	0.35	484.70
16	0.77	0.00	0.00	0.00	0.78	8251.19	16	0.77	0.00	0.00	0.00	0.73	7766.54	16	0.00	0.00	0.00	0.00	0.05	484.65
17	0.77	0.00	0.00	0.00	1.36	8250.60	17	0.77	0.00	0.00	0.00	1.28	7766.03	17	0.00	0.00	0.00	0.00	0.08	484.57
18	0.77	0.00	0.00	0.00	5.05	8246.32	18	0.77	0.00	0.00	0.00	4.75	7762.05	18	0.00	0.00	0.00	0.00	0.30	484.27
19	0.77	0.00	0.00	0.00	6.80	8240.29	19	0.77	0.00	0.00	0.00	6.40	7756.42	19	0.00	0.00	0.00	0.00	0.40	483.87
20	0.77	0.00	0.00	0.00	10.10	8230.96	20	0.77	0.00	0.00	0.00	9.51	7747.68	20	0.00	0.00	0.00	0.00	0.59	483.28
21	0.00	0.00	0.00	0.00	10.29	8220.67	21	0.00	0.00	0.00	0.00	9.69	7737.99	21	0.00	0.00	0.00	0.00	0.60	482.68
22	0.00	0.00	0.00	0.00	10.30	8210.37	22	0.00	0.00	0.00	0.00	9.70	7728.29	22	0.00	0.00	0.00	0.00	0.60	482.08
23	0.00	0.00	0.00	0.00	5.45	8204.92	23	0.00	0.00	0.00	0.00	5.13	7723.16	23	0.00	0.00	0.00	0.00	0.32	481.76
24	0.00	0.00	0.00	0.00	7.79	8197.13	24	0.00	0.00	0.00	0.00	7.33	7715.83	24	0.00	0.00	0.00	0.00	0.46	481.30
25	0.00	0.00	0.00	0.00	7.40	8189.73	25	0.00	0.00	0.00	0.00	6.97	7708.86	25	0.00	0.00	0.00	0.00	0.43	480.87
26	9.55	0.00	0.00	0.00	6.44	8192.84	26	9.55	0.00	0.00	0.00	6.06	7712.35	26	0.00	0.00	0.00	0.00	0.38	480.49
27	9.55	0.00	0.00	0.00	5.84	8196.55	27	9.55	0.00	0.00	0.00	5.50	7716.40	27	0.00	0.00	0.00	0.00	0.34	480.15
28	9.55	0.00	0.00	0.00	5.84	8200.26	28	9.55	0.00	0.00	0.00	5.50	7720.45	28	0.00	0.00	0.00	0.00	0.34	479.81
29	9.55	0.00	0.																	

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						74.16							3.99
1	0.00	0.00	0.00	0.00	0.02	74.14	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.04	74.10	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.05	74.05	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.05	74.00	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.05	73.95	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.08	73.87	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.08	73.79	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.08	73.71	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.03	73.68	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.08	73.60	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.04	73.56	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.05	73.51	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.05	73.46	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.05	73.41	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.05	73.36	15	0.00	0.00	0.00	0.00	0.00	3.99
16	0.00	0.00	0.00	0.00	0.01	73.35	16	0.00	0.00	0.00	0.00	0.00	3.99
17	0.00	0.00	0.00	0.00	0.01	73.34	17	0.00	0.00	0.00	0.00	0.00	3.99
18	0.00	0.00	0.00	0.00	0.04	73.30	18	0.00	0.00	0.00	0.00	0.00	3.99
19	0.00	0.00	0.00	0.00	0.06	73.24	19	0.00	0.00	0.00	0.00	0.00	3.99
20	0.00	0.00	0.00	0.00	0.08	73.16	20	0.00	0.00	0.00	0.00	0.00	3.99
21	0.00	0.00	0.00	0.00	0.09	73.07	21	0.00	0.00	0.00	0.00	0.00	3.99
22	0.00	0.00	0.00	0.00	0.09	72.98	22	0.00	0.00	0.00	0.00	0.00	3.99
23	0.00	0.00	0.00	0.00	0.05	72.93	23	0.00	0.00	0.00	0.00	0.00	3.99
24	0.00	0.00	0.00	0.00	0.07	72.86	24	0.00	0.00	0.00	0.00	0.00	3.99
25	0.00	0.00	0.00	0.00	0.06	72.80	25	0.00	0.00	0.00	0.00	0.00	3.99
26	0.00	0.00	0.00	0.00	0.05	72.75	26	0.00	0.00	0.00	0.00	0.00	3.99
27	0.00	0.00	0.00	0.00	0.05	72.70	27	0.00	0.00	0.00	0.00	0.00	3.99
28	0.00	0.00	0.00	0.00	0.05	72.65	28	0.00	0.00	0.00	0.00	0.00	3.99
29	0.00	0.00	0.00	0.00	0.05	72.60	29	0.00	0.00	0.00	0.00	0.00	3.99
30	0.00	0.00	0.00	0.00	0.05	72.55	30	0.00	0.00	0.00	0.00	0.00	3.99
31	0.00	0.00	0.00	0.00	0.05	72.50	31	0.00	0.00	0.00	0.00	0.00	3.99
	0.00	0.00	0.00	0.00	1.66			0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						70.17							0.00
1	0.00	0.00	0.00	0.00	0.02	70.15	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	70.11	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.05	70.06	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.05	70.01	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.05	69.96	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.08	69.88	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	69.80	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.08	69.72	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.03	69.69	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.08	69.61	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.04	69.57	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.05	69.52	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.05	69.47	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.05	69.42	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.05	69.37	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	69.36	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.01	69.35	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.04	69.31	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.06	69.25	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.08	69.17	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.09	69.08	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.09	68.99	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.05	68.94	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.07	68.87	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.06	68.81	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.05	68.76	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.05	68.71	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.05	68.66	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.05	68.61	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.05	68.56	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.05	68.51	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.66			0.00	0.00	0.00	0.00	0.00	



October 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for June 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”). This letter reports the monthly pumping in excess of Colorado’s pre-Compact entitlement, Colorado’s monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of June, 2016.

Table 1 shows the amount of pumping during the month of June 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all of the days in June. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in June.



Mr. David Barfield and Ms. Stephanie Gonzales
October 28, 2016

Page 2

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 1613.73 acre-feet of fully consumable water to the Colorado Downstream Consumable sub-account in June, 2016. These deliveries consisted of 173.49 acre-feet from LAWMA's Highland Canal water right, 150.30 acre-feet from LAWMA's Keesee Ditch water right and 1289.94 acre-feet from a delivery of fully consumable water purchased from Colorado Springs Utilities and delivered from Pueblo Reservoir. The delivery from Pueblo Reservoir began to arrive at John Martin Reservoir on June 22, 2016 and continued through June 30, 2016 and into July.

As of June 30, 2016, a total of 9654.11 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of June is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
June 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	789.59	373.26
2	BOOTH ORCHARD	9.72	5.19
3	EXCELSIOR	102.29	51.16
4	COLLIER	0.00	0.00
5	COLORADO	252.19	127.93
6	ROCKY FORD HIGHLINE	106.35	50.29
7	OXFORD	35.07	20.81
8	OTERO	0.16	0.06
9	CATLIN	881.67	523.09
10	FORT LYON US	361.72	151.70
11	ROCKY FORD	14.43	7.22
12	HOLBROOK	214.08	160.33
13	LAS ANIMAS CONSOLIDATED	101.18	46.05
14	BALDWIN-STUBBS	14.21	7.10
15	FORT BENT	42.09	27.82
16	KEESEEE	986.56	555.25
17	AMITY	213.93	158.50
18	LAMAR/MANVEL	129.17	93.45
19	HYDE	729.16	364.13
20	FORT LYON DS	282.98	177.92
21	XY GRAHAM	8.69	3.31
22	BUFFALO	1941.73	1443.86
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	19.37	14.53
601	LAWMA A.P.D.	789.59	373.26
602	LAWMA A.P.D.	9.72	5.19
	Totals	7236.34	4362.96

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
June 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	5.06	0.00	531.30	158.50	93.45	344.06	152.74	3.31	0.00	1405.48	2693.90

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
June 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	155.52	78.40	99.75	217.74	882.14	22.49	1456.05	
Depletion to Usable SL Flow		0.00	0.00	0.00	127.37	64.21	81.69	178.33	722.47	18.42	1192.51	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	262.28				649.32						649.32	807.44
Lamar Granada East/West	158.03								545.97		545.97	0
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								0.00		0.00	88.00
XY Direct Flow	0					0.00					0.00	377.40
Manvel Direct Flow	0					0.00					0.00	87.50
Offset Account Release Credit*	24938.10									0	0.00	24938.10
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	649.32	0.00	0.00	0.00	545.97	0.00	1195.29	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for June 2016

Offset Account

June 2016

OffsetAccount-Totals							OffsetAccount-Consumable Upstream							OffsetAccount-Consumable Kansas						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8283.67							0.00							0.00
1	9.78	0.00	0.00	0.00	5.54	8287.91	1	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00
2	9.78	0.00	0.00	0.00	6.16	8291.53	2	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00
3	9.78	0.00	0.00	0.00	3.37	8297.94	3	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00
4	3.67	0.00	0.00	0.00	3.35	8298.26	4	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	3.34	8294.92	5	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	4.33	8290.59	6	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	9.82	8280.77	7	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	8.46	8272.31	8	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	7.51	8264.80	9	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00
10	9.78	0.00	0.00	0.00	8.72	8265.86	10	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	9.78	0.00	0.00	0.00	8.71	8266.93	11	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00
12	9.78	0.00	0.00	0.00	8.91	8267.80	12	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	9.78	0.00	0.00	0.00	7.73	8269.85	13	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	0.00
14	9.78	0.00	0.00	0.00	7.74	8271.89	14	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00
15	9.78	0.00	0.00	0.00	12.15	8269.52	15	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	9.13	8260.39	16	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00
17	86.69	0.00	0.00	0.00	8.94	8338.14	17	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00
18	86.80	0.00	0.00	0.00	8.92	8416.02	18	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	8.92	8407.10	19	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	11.35	8395.75	20	0.00	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	12.15	8383.60	21	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00	0.00
22	15.06	0.00	0.00	0.00	8.31	8390.35	22	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	67.77	0.00	0.00	0.00	7.94	8450.18	23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	130.25	0.00	0.00	0.00	9.51	8570.92	24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	182.97	0.00	0.00	0.00	9.68	8744.21	25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	190.50	0.00	0.00	0.00	10.13	8924.58	26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	190.50	0.00	0.00	0.00	8.60	9106.48	27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	190.50	0.00	0.00	0.00	6.10	9290.88	28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	190.50	0.00	0.00	0.00	9.49	9471.89	29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	190.50	0.00	0.00	0.00	8.28	9654.11	30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
1613.73	0.00	0.00	0.00	0.00	243.29		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
OffsetAccount-Consumable Totals							OffsetAccount-Consumable Downstream							OffsetAccount-Consumable Kansas Charge						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8211.17							7732.39							478.78
1	9.78	0.00	0.00	0.00	5.49	8215.46	1	9.78	0.00	0.00	0.00	5.17	7737.00	1	0.00	0.00	0.00	0.00	0.32	478.46
2	9.78	0.00	0.00	0.00	6.11	8219.13	2	9.78	0.00	0.00	0.00	5.75	7741.03	2	0.00	0.00	0.00	0.00	0.36	478.10
3	9.78	0.00	0.00	0.00	3.34	8225.57	3	9.78	0.00	0.00	0.00	3.15	7747.66	3	0.00	0.00	0.00	0.00	0.19	477.91
4	3.67	0.00	0.00	0.00	3.32	8225.92	4	3.67	0.00	0.00	0.00	3.13	7748.20	4	0.00	0.00	0.00	0.00	0.19	477.72
5	0.00	0.00	0.00	0.00	3.31	8222.61	5	0.00	0.00	0.00	0.00	3.12	7745.08	5	0.00	0.00	0.00	0.00	0.19	477.53
6	0.00	0.00	0.00	0.00	4.29	8218.32	6	0.00	0.00	0.00	0.00	4.04	7741.04	6	0.00	0.00	0.00	0.00	0.25	477.28
7	0.00	0.00	0.00	0.00	9.74	8208.58	7	0.00	0.00	0.00	0.00	9.17	7731.87	7	0.00	0.00	0.00	0.00	0.57	476.71
8	0.00	0.00	0.00	0.00	8.39	8200.19	8	0.00	0.00	0.00	0.00	7.90	7723.97	8	0.00	0.00	0.00	0.00	0.49	476.22
9	0.00	0.00	0.00	0.00	7.45	8192.74	9	0.00	0.00	0.00	0.00	7.02	7716.95	9	0.00	0.00	0.00	0.00	0.43	475.79
10	9.78	0.00	0.00	0.00	8.65	8193.87	10	9.78	0.00	0.00	0.00	8.15	7718.58	10	0.00	0.00	0.00	0.00	0.50	475.29
11	9.78	0.00	0.00	0.00	8.64	8195.01	11	9.78	0.00	0.00	0.00	8.14	7720.22	11	0.00	0.00	0.00	0.00	0.50	474.79
12	9.78	0.00	0.00	0.00	8.84	8195.95	12	9.78	0.00	0.00	0.00	8.33	7721.67	12	0.00	0.00	0.00	0.00	0.51	474.28
13	9.78	0.00	0.00	0.00	7.67	8198.06	13	9.78	0.00	0.00	0.00	7.22	7724.23	13	0.00	0.00	0.00	0.00	0.45	473.83
14	9.78	0.00	0.00	0.00	7.68	8200.16	14	9.78	0.00	0.00	0.00	7.23	7726.78	14	0.00	0.00	0.00	0.00	0.45	473.38
15	9.78	0.00	0.00	0.00	12.04	8197.90	15	9.78	0.00	0.00	0.00	11.34	7725.22	15	0.00	0.00	0.00	0.00	0.70	472.68
16	0.00	0.00	0.00	0.00	9.06	8188.84	16	0.00	0.00	0.00	0.00	8.54	7716.68	16	0.00	0.00	0.00	0.00	0.52	472.16
17	86.69	0.00	0.00	0.00	8.87	8266.66	17	86.69	0.00	0.00	0.00	8.36	7795.01	17	0.00	0.00	0.00	0.00	0.51	471.65
18	86.80	0.00	0.00	0.00	8.85	8344.61	18	86.80	0.00	0.00	0.00	8.34	7873.47	18	0.00	0.00	0.00	0.00	0.51	471.14
19	0.00	0.00	0.00	0.00	8.85	8335.76	19	0.00	0.00	0.00	0.00	8.34	7865.13	19	0.00	0.00	0.00	0.00	0.51	470.63
20	0.00	0.00	0.00	0.00	11.25	8324.51	20	0.00	0.00	0.00	0.00	10.61	7854.52	20	0.00	0.00	0.00	0.00	0.64	469.99
21	0.00	0.00	0.00	0.00	12.04	8312.47	21	0.00	0.00	0.00	0.00	11.36	7843.16	21	0.00	0.00	0.00	0.00	0.68	469.31
22	15.06	0.00	0.00	0.00	8.24	8319.29	22	15.06	0.00	0.00	0.00	7.77	7850.45	22	0.00	0.00	0.00	0.00	0.47	468.84
23	67.77	0.00	0.00	0.00	7.88	8379.18	23	67.77	0.00	0.00	0.00	7.44	7910.78	23	0.00	0.00	0.00	0.00	0.44	468.40
24	130.25	0.00	0.00	0.00	9.43	8500.00	24	130.25	0.00	0.00	0.00	8.90	8032.13	24	0.00	0.00	0.00	0.00	0.53	467.87
25	182.97	0.00	0.00	0.00	9.60	8673.37	25	182.97	0.00	0.00	0.00	9.07	8206.03	25	0.00	0.00	0.00	0.00	0.53	467.34
26	190.50	0.00	0.00	0.00	10.05	8853.82	26	190.50	0.00	0.00	0.00	9.51	8387.02	26	0.00	0.00	0.00	0.00	0.54	466.80
27	190.50	0.00	0.00	0.00	8.54	9035.78	27	190.50	0.00	0.00	0.00	8.09	8569.43	27	0.00	0.00	0.00	0.00	0.45	466.35
28	190.50	0.00	0.00	0.00	6.06	9220.22	28	190.50	0.00	0.00	0.00	5.75	8754.18	28	0.00	0.00	0.00	0.00	0.31	466.04
29	190.50	0.00	0.00	0.00	9.42	9401.30	29	190.50	0.00	0.00	0.00	8.94	8935.74	29	0.00	0.00	0.0			

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						72.50							3.99
1	0.00	0.00	0.00	0.00	0.05	72.45	1	0.00	0.00	0.00	0.00	0.00	3.99
2	0.00	0.00	0.00	0.00	0.05	72.40	2	0.00	0.00	0.00	0.00	0.00	3.99
3	0.00	0.00	0.00	0.00	0.03	72.37	3	0.00	0.00	0.00	0.00	0.00	3.99
4	0.00	0.00	0.00	0.00	0.03	72.34	4	0.00	0.00	0.00	0.00	0.00	3.99
5	0.00	0.00	0.00	0.00	0.03	72.31	5	0.00	0.00	0.00	0.00	0.00	3.99
6	0.00	0.00	0.00	0.00	0.04	72.27	6	0.00	0.00	0.00	0.00	0.00	3.99
7	0.00	0.00	0.00	0.00	0.08	72.19	7	0.00	0.00	0.00	0.00	0.00	3.99
8	0.00	0.00	0.00	0.00	0.07	72.12	8	0.00	0.00	0.00	0.00	0.00	3.99
9	0.00	0.00	0.00	0.00	0.06	72.06	9	0.00	0.00	0.00	0.00	0.00	3.99
10	0.00	0.00	0.00	0.00	0.07	71.99	10	0.00	0.00	0.00	0.00	0.00	3.99
11	0.00	0.00	0.00	0.00	0.07	71.92	11	0.00	0.00	0.00	0.00	0.00	3.99
12	0.00	0.00	0.00	0.00	0.07	71.85	12	0.00	0.00	0.00	0.00	0.00	3.99
13	0.00	0.00	0.00	0.00	0.06	71.79	13	0.00	0.00	0.00	0.00	0.00	3.99
14	0.00	0.00	0.00	0.00	0.06	71.73	14	0.00	0.00	0.00	0.00	0.00	3.99
15	0.00	0.00	0.00	0.00	0.11	71.62	15	0.00	0.00	0.00	0.00	0.01	3.98
16	0.00	0.00	0.00	0.00	0.07	71.55	16	0.00	0.00	0.00	0.00	0.00	3.98
17	0.00	0.00	0.00	0.00	0.07	71.48	17	0.00	0.00	0.00	0.00	0.00	3.98
18	0.00	0.00	0.00	0.00	0.07	71.41	18	0.00	0.00	0.00	0.00	0.00	3.98
19	0.00	0.00	0.00	0.00	0.07	71.34	19	0.00	0.00	0.00	0.00	0.00	3.98
20	0.00	0.00	0.00	0.00	0.10	71.24	20	0.00	0.00	0.00	0.00	0.01	3.97
21	0.00	0.00	0.00	0.00	0.11	71.13	21	0.00	0.00	0.00	0.00	0.01	3.96
22	0.00	0.00	0.00	0.00	0.07	71.06	22	0.00	0.00	0.00	0.00	0.00	3.96
23	0.00	0.00	0.00	0.00	0.06	71.00	23	0.00	0.00	0.00	0.00	0.00	3.96
24	0.00	0.00	0.00	0.00	0.08	70.92	24	0.00	0.00	0.00	0.00	0.00	3.96
25	0.00	0.00	0.00	0.00	0.08	70.84	25	0.00	0.00	0.00	0.00	0.00	3.96
26	0.00	0.00	0.00	0.00	0.08	70.76	26	0.00	0.00	0.00	0.00	0.00	3.96
27	0.00	0.00	0.00	0.00	0.06	70.70	27	0.00	0.00	0.00	0.00	0.00	3.96
28	0.00	0.00	0.00	0.00	0.04	70.66	28	0.00	0.00	0.00	0.00	0.00	3.96
29	0.00	0.00	0.00	0.00	0.07	70.59	29	0.00	0.00	0.00	0.00	0.00	3.96
30	0.00	0.00	0.00	0.00	0.06	70.53	30	0.00	0.00	0.00	0.00	0.00	3.96
	0.00	0.00	0.00	0.00	1.97		0.00	0.00	0.00	0.00	0.00	0.03	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						68.51							0.00
1	0.00	0.00	0.00	0.00	0.05	68.46	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.05	68.41	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.03	68.38	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.03	68.35	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.03	68.32	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.04	68.28	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.08	68.20	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.07	68.13	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.06	68.07	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.07	68.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.07	67.93	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.07	67.86	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.06	67.80	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.06	67.74	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.10	67.64	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.07	67.57	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.07	67.50	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.07	67.43	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.07	67.36	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.09	67.27	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.10	67.17	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.07	67.10	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.06	67.04	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.08	66.96	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.08	66.88	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.08	66.80	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.06	66.74	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.04	66.70	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.07	66.63	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.06	66.57	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	1.94		0.00	0.00	0.00	0.00	0.00	0.00	



October 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for July 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”). This letter reports the monthly pumping in excess of Colorado’s pre-Compact entitlement, Colorado’s monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of July, 2016.

Table 1 shows the amount of pumping during the month of July 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all of the days in July. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in July.



The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 1088.38 acre-feet of fully consumable water to the Colorado Downstream Consumable sub-account in July, 2016. These deliveries consisted of 79.30 acre-feet from LAWMA's Keesee Ditch water right and 1009.08 acre-feet from a delivery of fully consumable water purchased from Colorado Springs Utilities and delivered from Pueblo Reservoir beginning in June (June 22, 2016) and ending at John Martin Reservoir on July 7, 2016.

A release of water was called for by Kansas from the Offset Account at the rate of 60 cfs from July 18, 2016 through July 31, 2016 and on into August. A total of 2374.8 acre-feet was released from the Offset Account during the delivery, 1653.34 acre-feet of which was released in July. The delivery resulted in 1451 acre-feet of delivery credit at the Stateline pending final review of the delivery by Kansas.

As of July 31, 2016, a total of 8719.79 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of July is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
July 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	1603.62	698.63
2	BOOTH ORCHARD	10.23	5.49
3	EXCELSIOR	107.10	53.56
4	COLLIER	0.26	0.09
5	COLORADO	525.11	296.81
6	ROCKY FORD HIGHLINE	623.79	266.93
7	OXFORD	170.66	73.96
8	OTERO	42.47	17.48
9	CATLIN	1609.77	888.34
10	FORT LYON US	1461.79	644.35
11	ROCKY FORD	30.33	15.18
12	HOLBROOK	426.21	318.86
13	LAS ANIMAS CONSOLIDATED	178.61	73.33
14	BALDWIN-STUBBS	40.73	20.37
15	FORT BENT	123.69	73.72
16	KEESEEE	1365.99	802.02
17	AMITY	312.88	210.12
18	LAMAR/MANVEL	161.14	117.95
19	HYDE	811.19	390.70
20	FORT LYON DS	411.65	265.95
21	XY GRAHAM	8.62	3.59
22	BUFFALO	2920.49	2179.58
23	SISSON	0.00	0.00
24	STATELINE SOLE SOURCE	15.97	11.98
601	LAWMA A.P.D.	1603.62	698.63
602	LAWMA A.P.D.	10.23	5.49
	Totals	12962.30	7428.99

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
July 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
13.09	29.20	0.00	752.43	210.12	117.95	362.17	248.76	3.59	0.00	2146.28	3883.59

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
July 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	175.78	85.60	106.77	233.38	1146.56	19.50	1767.59	
Depletion to Usable SL Flow		0.00	0.00	0.00	143.97	70.11	87.45	191.14	939.03	15.97	1447.66	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	807.44				868.26						868.26	200.60
Lamar Granada East/West	0.00								0.00		0.00	411.73
Ft Bent Ditch Shares	0.00				0						0.00	0
Stubbs Direct Flow	88.00								88		88.00	88.00
XY Direct Flow	377.40					408.90					408.90	377.40
Manvel Direct Flow	87.50					87.5					87.50	87.50
Offset Account Release Credit*	24938.10									0	0.00	24938.10
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	79.18
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	868.26	496.40	0.00	0.00	88.00	0.00	1452.66	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for July 2016

OffsetAccount-ReturnFlow Totals							OffsetAccount-ReturnFlow RF Transit Loss						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						70.53							3.96
1	0.00	0.00	0.00	0.00	0.04	70.49	1	0.00	0.00	0.00	0.00	0.00	3.96
2	0.00	0.00	0.00	0.00	0.04	70.45	2	0.00	0.00	0.00	0.00	0.00	3.96
3	0.00	0.00	0.00	0.00	0.04	70.41	3	0.00	0.00	0.00	0.00	0.00	3.96
4	0.00	0.00	0.00	0.00	0.04	70.37	4	0.00	0.00	0.00	0.00	0.00	3.96
5	0.00	0.00	0.00	0.00	0.06	70.31	5	0.00	0.00	0.00	0.00	0.00	3.96
6	0.00	0.00	0.00	0.00	0.10	70.21	6	0.00	0.00	0.00	0.00	0.01	3.95
7	0.00	0.00	0.00	0.00	0.11	70.10	7	0.00	0.00	0.00	0.00	0.01	3.94
8	0.00	0.00	0.00	0.00	0.07	70.03	8	0.00	0.00	0.00	0.00	0.00	3.94
9	0.00	0.00	0.00	0.00	0.07	69.96	9	0.00	0.00	0.00	0.00	0.00	3.94
10	0.00	0.00	0.00	0.00	0.07	69.89	10	0.00	0.00	0.00	0.00	0.00	3.94
11	0.00	0.00	0.00	0.00	0.11	69.78	11	0.00	0.00	0.00	0.00	0.01	3.93
12	0.00	0.00	0.00	0.00	0.05	69.73	12	0.00	0.00	0.00	0.00	0.00	3.93
13	0.00	0.00	0.00	0.00	0.07	69.66	13	0.00	0.00	0.00	0.00	0.00	3.93
14	0.00	0.00	0.00	0.00	0.07	69.59	14	0.00	0.00	0.00	0.00	0.00	3.93
15	0.00	0.00	0.00	0.00	0.10	69.49	15	0.00	0.00	0.00	0.00	0.01	3.92
16	0.00	0.00	0.00	0.00	0.10	69.39	16	0.00	0.00	0.00	0.00	0.01	3.91
17	0.00	0.00	0.00	0.00	0.10	69.29	17	0.00	0.00	0.00	0.00	0.01	3.90
18	0.00	0.00	0.00	0.00	0.07	69.22	18	0.00	0.00	0.00	0.00	0.00	3.90
19	0.00	0.00	0.00	0.00	0.12	69.10	19	0.00	0.00	0.00	0.00	0.01	3.89
20	0.00	0.00	0.00	0.00	0.11	68.99	20	0.00	0.00	0.00	0.00	0.01	3.88
21	0.00	0.00	0.00	7.92	0.10	60.97	21	0.00	0.00	0.00	0.00	0.01	3.87
22	0.00	0.00	0.00	60.90	0.07	0.00	22	0.00	0.00	0.00	3.87	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	68.82	1.71			0.00	0.00	0.00	3.87	0.09	

OffsetAccount-ReturnFlow Return Flow							OffsetAccount-ReturnFlow Keesee Winter						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.57							0.00
1	0.00	0.00	0.00	0.00	0.04	66.53	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	66.49	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	66.45	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.04	66.41	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.06	66.35	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.09	66.26	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.10	66.16	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.07	66.09	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.07	66.02	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.07	65.95	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.10	65.85	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.05	65.80	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.07	65.73	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.07	65.66	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.09	65.57	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.09	65.48	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.09	65.39	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.07	65.32	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.11	65.21	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.10	65.11	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	7.92	0.09	57.10	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	57.03	0.07	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	64.95	1.62			0.00	0.00	0.00	0.00	0.00	



October 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for August 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”). This letter reports the monthly pumping in excess of Colorado’s pre-Compact entitlement, Colorado’s monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of August, 2016.

Table 1 shows the amount of pumping during the month of August 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all of the days in August. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in August.



Mr. David Barfield and Ms. Stephanie Gonzales
October 28, 2016

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The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

No deliveries to the Offset Account occurred during August, 2016.

A release of water was called for by Kansas from the Offset Account at the rate of 60 cfs from July 18, 2016 ended at John Martin Reservoir on August 7, 2016. A second release from the Offset Account (Kansas' third delivery during 2016 from John Martin Reservoir; first delivery was Section II only, second delivery was combined Section II and Offset Account) began on August 17, 2016 at the rate of 110 cfs. This delivery ran through August 31, 2016. A total of 3039 acre-feet of fully consumable water was released from the Offset Account yielding a delivery credit at the stateline of 2593 acre-feet (pending Kansas' final review).

As of August 31, 2016, a total of 4701.59 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of August is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
August 2016

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	1409.59	622.51
2	BOOTH ORCHARD	29.13	15.30
3	EXCELSIOR	88.84	44.43
4	COLLIER	50.70	18.00
5	COLORADO	543.75	308.01
6	ROCKY FORD HIGHLINE	518.16	204.87
7	OXFORD	313.99	126.03
8	OTERO	45.05	17.98
9	CATLIN	943.55	549.20
10	FORT LYON US	1362.12	621.09
11	ROCKY FORD	25.13	12.57
12	HOLBROOK	377.68	238.38
13	LAS ANIMAS CONSOLIDATED	104.10	46.12
14	BALDWIN-STUBBS	50.73	31.04
15	FORT BENT	87.57	51.19
16	KEESEEE	1380.14	813.64
17	AMITY	430.92	210.16
18	LAMAR/MANVEL	200.37	146.95
19	HYDE	455.10	192.08
20	FORT LYON DS	245.83	168.38
21	XY GRAHAM	8.62	3.07
22	BUFFALO	3188.38	2382.00
23	SISSON	4.64	1.64
24	STATELINE SOLE SOURCE	17.68	13.26
601	LAWMA A.P.D.	1409.59	622.51
602	LAWMA A.P.D.	29.13	15.30
	Totals	11881.77	6837.90

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
August 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
23.76	24.17	0.00	783.42	210.16	146.95	165.37	167.83	3.07	0.00	2382.00	3906.74

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
August 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	191.14	94.74	113.94	249.03	1439.19	20.02	2108.06	
Depletion to Usable SL Flow		0.00	0.00	0.00	156.54	77.59	93.32	203.95	1178.70	16.39	1726.51	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0.00	10.09	24.60	61.70	34.14						130.53	0
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0.00				0						0.00	0
Lamar Center Farm	200.60				200.60						200.60	0
Lamar Granada East/West	411.73								781.18		781.18	0.00
Ft Bent Ditch Shares	0.00				0						0.00	0
Stubbs Direct Flow	88.00								0.00		0.00	88.00
XY Direct Flow	377.40					362.44					362.44	14.96
Manvel Direct Flow	87.50					0.00					0.00	87.50
Offset Account Release Credit*	24938.10									0	0.00	24938.10
Offset Account Transit Loss	79.18	19.08			64.73			171.45			255.26	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	29.17	24.60	61.70	299.47	362.44	0.00	171.45	781.18	0.00	1730.00	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for August 2016

OffsetAccount-Totals							OffsetAccount-Consumable Upstream							OffsetAccount-Consumable Kansas						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8719.79							0.00							0.00
1	0.00	0.00	0.00	119.01	5.80	8594.98	1	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	119.01	12.23	8463.74	2	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	119.01	12.35	8332.38	3	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	119.01	8.01	8205.36	4	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	119.01	8.40	8077.95	5	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	119.01	8.31	7950.63	6	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	7.44	8.21	7934.98	7	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	12.32	7922.66	8	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	9.82	7912.84	9	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	9.13	7903.71	10	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	9.82	7893.89	11	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	9.58	7884.31	12	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	9.58	7874.73	13	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	9.57	7865.16	14	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	7.96	7857.20	15	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	11.36	7845.84	16	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	118.18	9.30	7718.36	17	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	218.19	10.49	7489.68	18	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	218.19	8.68	7262.81	19	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	218.19	8.42	7036.20	20	0.00	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	218.19	8.17	6809.84	21	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	218.19	11.87	6579.78	22	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	218.19	10.15	6351.44	23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	218.19	4.26	6128.99	24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	218.19	7.87	5902.93	25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	218.19	6.04	5678.70	26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	218.19	5.82	5454.69	27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	218.19	5.60	5230.90	28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	218.19	1.23	5011.48	29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	218.19	2.66	4790.63	30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	84.09	4.95	4701.59	31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	3760.24	257.96			0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals							OffsetAccount-Consumable Downstream							OffsetAccount-Consumable Kansas Charge						
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8719.79							8719.79							0.00
1	0.00	0.00	0.00	119.01	5.80	8594.98	1	0.00	0.00	0.00	119.01	5.80	8594.98	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	119.01	12.23	8463.74	2	0.00	0.00	0.00	119.01	12.23	8463.74	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	119.01	12.35	8332.38	3	0.00	0.00	0.00	119.01	12.35	8332.38	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	119.01	8.01	8205.36	4	0.00	0.00	0.00	119.01	8.01	8205.36	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	119.01	8.40	8077.95	5	0.00	0.00	0.00	119.01	8.40	8077.95	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	119.01	8.31	7950.63	6	0.00	0.00	0.00	119.01	8.31	7950.63	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	7.44	8.21	7934.98	7	0.00	0.00	0.00	7.44	8.21	7934.98	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	12.32	7922.66	8	0.00	0.00	0.00	0.00	12.32	7922.66	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	9.82	7912.84	9	0.00	0.00	0.00	0.00	9.82	7912.84	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	9.13	7903.71	10	0.00	0.00	0.00	0.00	9.13	7903.71	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	9.82	7893.89	11	0.00	0.00	0.00	0.00	9.82	7893.89	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	9.58	7884.31	12	0.00	0.00	0.00	0.00	9.58	7884.31	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	9.58	7874.73	13	0.00	0.00	0.00	0.00	9.58	7874.73	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	9.57	7865.16	14	0.00	0.00	0.00	0.00	9.57	7865.16	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	7.96	7857.20	15	0.00	0.00	0.00	0.00	7.96	7857.20	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	11.36	7845.84	16	0.00	0.00	0.00	0.00	11.36	7845.84	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	118.18	9.30	7718.36	17	0.00	0.00	0.00	118.18	9.30	7718.36	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	218.19	10.49	7489.68	18	0.00	0.00	0.00	218.19	10.49	7489.68	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	218.19	8.68	7262.81	19	0.00	0.00	0.00	218.19	8.68	7262.81	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	218.19	8.42	7036.20	20	0.00	0.00	0.00	218.19	8.42	7036.20	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	218.19	8.17	6809.84	21	0.00	0.00	0.00	218.19	8.17	6809.84	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	218.19	11.87	6579.78	22	0.00	0.00	0.00	218.19	11.87	6579.78	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	218.19	10.15	6351.44	23	0.00	0.00	0.00	218.19	10.15	6351.44	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	218.19	4.26	6128.99	24	0.00	0.00	0.00	218.19	4.26	6128.99	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	218.19	7.87	5902.93	25	0.00	0.00	0.00	218.19	7.87	5902.93	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	218.19	6.04	5678.70	26	0.00	0.00	0.00	218.19	6.04	5678.70	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	218.19	5.82	5454.69	27	0.00	0.00	0.00	218.19	5.82	5454.69	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	218.19	5.60	5230.90	28	0.00	0.00	0.00	218.19	5.60	5230.90	28	0.00	0.00	0.00			



October 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for September 2016

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** (“Resolution”). This letter reports the monthly pumping in excess of Colorado’s pre-Compact entitlement, Colorado’s monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of September, 2016.

Table 1 shows the amount of pumping during the month of September 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all of the days in September. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in September.



Mr. David Barfield and Ms. Stephanie Gonzales
October 28, 2016

Page 2

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

No deliveries to the Offset Account occurred during September, 2016.

As of September 30, 2016, a total of 4563.68 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of September is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
September 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	1125.01	501.53
2	BOOTH ORCHARD	68.52	45.59
3	EXCELSIOR	149.18	105.89
4	COLLIER	33.53	11.90
5	COLORADO	336.17	177.28
6	ROCKY FORD HIGHLINE	235.75	91.16
7	OXFORD	259.42	120.94
8	OTERO	76.55	28.12
9	CATLIN	1546.73	797.90
10	FORT LYON US	910.70	429.50
11	ROCKY FORD	260.94	244.45
12	HOLBROOK	270.11	133.45
13	LAS ANIMAS CONSOLIDATED	45.88	23.27
14	BALDWIN-STUBBS	421.66	295.50
15	FORT BENT	182.49	105.91
16	KEESEEE	914.95	554.16
17	AMITY	409.95	257.46
18	LAMAR/MANVEL	107.30	79.93
19	HYDE	507.79	285.25
20	FORT LYON DS	804.20	534.20
21	XY GRAHAM	5.23	1.85
22	BUFFALO	0.00	0.00
23	SISSON	1139.81	845.34
24	STATELINE SOLE SOURCE	0.00	0.00
601	LAWMA A.P.D.	20.19	15.15
602	LAWMA A.P.D.	1125.01	501.53
	Totals	9832.06	5685.73

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
September 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
11.76	26.82	0.00	491.11	188.52	79.93	212.91	267.10	1.85	0.00	730.90	2010.90

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
September 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	189.16	100.19	119.10	257.11	1409.65	31.12	2106.32	
Depletion to Usable SL Flow		0.00	0.00	0.00	154.92	82.05	97.54	210.57	1154.50	25.48	1725.08	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	17.22	9.88	30.13	16.54						73.77	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				272.60						272.60	0
Lamar Granada East/West	0								282.79		282.79	0
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	88								88.00		88.00	0
XY Direct Flow	14.96					14.96					14.96	0
Manvel Direct Flow	87.5					87.50					87.50	0
Offset Account Release Credit*	24938.1									906.51	906.51	24938.10
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	17.22	9.88	30.13	289.14	102.46	0.00	0.00	370.79	906.51	1726.13	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0.0		

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for September 2016

OffsetAccount-Totals							OffsetAccount-Consumable Upstream						OffsetAccount-Consumable Kansas							
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						4701.59							0.00							0.00
1	0.00	0.00	0.00	0.00	5.43	4696.16	1	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	6.68	4689.48	2	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	6.54	4682.94	3	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	6.68	4676.26	4	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	6.55	4669.71	5	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	3.75	4665.96	6	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	2.08	4663.88	7	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	2.50	4661.38	8	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	5.00	4656.38	9	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	5.00	4651.38	10	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	5.28	4646.10	11	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	4.03	4642.07	12	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.25	4640.82	13	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	3.07	4637.75	14	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	4.89	4632.86	15	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	3.63	4629.23	16	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	3.65	4625.58	17	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	3.65	4621.93	18	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	4.07	4617.86	19	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	11.12	4606.74	20	0.00	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.83	4604.91	21	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	7.77	4597.14	22	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.39	4592.75	23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.39	4588.36	24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	4.54	4583.82	25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.99	4581.83	26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	5.85	4575.98	27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	4.29	4571.69	28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	4.29	4567.40	29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	3.72	4563.68	30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	137.91			0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	
OffsetAccount-Consumable Totals							OffsetAccount-Consumable Downstream						OffsetAccount-Consumable Kansas Charge							
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						4701.59							4701.59							0.00
1	0.00	0.00	0.00	0.00	5.43	4696.16	1	0.00	0.00	0.00	0.00	5.43	4696.16	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	6.68	4689.48	2	0.00	0.00	0.00	0.00	6.68	4689.48	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	6.54	4682.94	3	0.00	0.00	0.00	0.00	6.54	4682.94	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	6.68	4676.26	4	0.00	0.00	0.00	0.00	6.68	4676.26	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	6.55	4669.71	5	0.00	0.00	0.00	0.00	6.55	4669.71	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	3.75	4665.96	6	0.00	0.00	0.00	0.00	3.75	4665.96	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	2.08	4663.88	7	0.00	0.00	0.00	0.00	2.08	4663.88	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	2.50	4661.38	8	0.00	0.00	0.00	0.00	2.50	4661.38	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	5.00	4656.38	9	0.00	0.00	0.00	0.00	5.00	4656.38	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	5.00	4651.38	10	0.00	0.00	0.00	0.00	5.00	4651.38	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	5.28	4646.10	11	0.00	0.00	0.00	0.00	5.28	4646.10	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	4.03	4642.07	12	0.00	0.00	0.00	0.00	4.03	4642.07	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.25	4640.82	13	0.00	0.00	0.00	0.00	1.25	4640.82	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	3.07	4637.75	14	0.00	0.00	0.00	0.00	3.07	4637.75	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	4.89	4632.86	15	0.00	0.00	0.00	0.00	4.89	4632.86	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	3.63	4629.23	16	0.00	0.00	0.00	0.00	3.63	4629.23	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	3.65	4625.58	17	0.00	0.00	0.00	0.00	3.65	4625.58	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	3.65	4621.93	18	0.00	0.00	0.00	0.00	3.65	4621.93	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	4.07	4617.86	19	0.00	0.00	0.00	0.00	4.07	4617.86	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	11.12	4606.74	20	0.00	0.00	0.00	0.00	11.12	4606.74	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	1.83	4604.91	21	0.00	0.00	0.00	0.00	1.83	4604.91	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	7.77	4597.14	22	0.00	0.00	0.00	0.00	7.77	4597.14	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	4.39	4592.75	23	0.00	0.00	0.00	0.00	4.39	4592.75	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.39	4588.36	24	0.00	0.00	0.00	0.00	4.39	4588.36	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	4.54	4583.82	25	0.00	0.00	0.00	0.00	4.54	4583.82	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	1.99	4581.83	26	0.00	0.00	0.00	0.00	1.99	4581.83	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	5.85	4575.98	27	0.00	0.00	0.00	0.00	5.85	4575.98	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	4.29	4571.69	28	0.00	0.00	0.00	0.00	4.29	4571.69	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	4.29	4567.40	29	0.00	0.00	0.00	0.00	4.29	4567.40	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	3.72	4563.68	30	0.00	0.00	0.00	0.00	3.72	4							



November 28, 2016

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for October 2016

Dear Mr. Barfield and Ms. Gonzales:

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Table 1 shows the amount of pumping during the month of October 2016 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** (“Rules”) approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 97% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during all but one of the days in October. Also note that in Reaches 14, 15, and 16, replacements to senior surface water rights in Colorado replaced 0% of the stream depletions caused by pumping affecting those reaches since there was no call by a Colorado surface water right in those reaches during all of the days in October.



Mr. David Barfield and Ms. Stephanie Gonzales
November 28, 2016

Page 2

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

No deliveries to the Offset Account occurred during October, 2016.

As of October 31, 2016, a total of 4430.74 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of October is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,



Steven J. Witte
Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner
Charlie DiDomenico

TABLE 1
Pumping By Rule 3 Irrigation Wells
October 2016

USER NO.	DITCH NAME	AF PUMPED WELLHEAD DEPL	
1	BESSEMER	316.82	145.99
2	BOOTH ORCHARD	37.50	26.97
3	EXCELSIOR	55.05	36.12
4	COLLIER	60.80	21.59
5	COLORADO	53.48	26.41
6	ROCKY FORD HIGHLINE	96.45	38.20
7	OXFORD	73.33	42.40
8	OTERO	33.60	11.93
9	CATLIN	283.16	161.58
10	FORT LYON US	128.28	48.16
11	ROCKY FORD	10.03	7.46
12	HOLBROOK	10.69	4.71
13	LAS ANIMAS CONSOLIDATED	10.47	5.51
14	BALDWIN-STUBBS	125.33	104.69
15	FORT BENT	190.12	109.04
16	KEESEEE	635.03	417.86
17	AMITY	244.42	157.96
18	LAMAR/MANVEL	197.92	147.30
19	HYDE	512.60	257.50
20	FORT LYON DS	681.74	432.54
21	XY GRAHAM	1.47	0.52
22	BUFFALO	0.00	0.00
23	SISSON	439.42	329.61
24	STATELINE SOLE SOURCE	0.00	0.00
601	LAWMA A.P.D.	10.57	7.93
602	LAWMA A.P.D.	316.82	145.99
	Totals	4208.28	2541.98

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
October 2016

USER NUMBER											
10	15	16	17	18	19	20	21	22	23	24	Total
0.00	85.68	0.00	369.91	93.32	147.30	240.41	179.94	0.52	0.00	218.04	1335.12

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
October 2016

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.65	1.29	6.22	188.80	101.27	121.53	257.87	1109.04	44.32	1830.99	
Depletion to Usable SL Flow		0.53	1.06	5.10	154.62	82.94	99.54	211.19	908.31	36.30	1499.58	
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	15.38	8.20	21.37	11.72						56.68	0
PBWW TM & AG Return Flows	0										0.00	0
CO Beef - Lamar Center Farm	0										0.00	0
Lamar Center Farm	0				26.67						26.67	0
Lamar Granada East/West	0								277.05		277.05	0
Ft Bent Ditch Shares	0										0.00	0
Stubbs Direct Flow	88										0.00	0
XY Direct Flow	14.96										0.00	0
Manvel Direct Flow	87.5										0.00	0
Offset Account Release Credit*	24025.56									1139.3	1139.30	22886.26
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	15.38	8.20	21.37	38.39	0.00	0.00	277.05	0.00	1139.3	1499.70	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0		

* Note that 0 acre-feet of the Offset Account release credit was applied to depletions from LAWMA's decreed augmentation plan and SWSP's as part of the Offset Account Release Credit total replacement.

Enclosure 1

John Martin Offset Accounting for October 2016

Offset Account

October 2016

OffsetAccount-Totals							OffsetAccount-Consumable Upstream						OffsetAccount-Consumable Kansas							
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						4563.68							0.00							0.00
1	0.00	0.00	0.00	0.00	4.19	4559.49	1	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	3.87	4555.62	2	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	7.74	4547.88	3	0.00	0.00	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	3.86	4544.02	4	0.00	0.00	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	5.00	4539.02	5	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	4.13	4534.89	6	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	4.00	4530.89	7	0.00	0.00	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	4.00	4526.89	8	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	4.00	4522.89	9	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	4.14	4518.75	10	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	2.57	4516.18	11	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	2.99	4513.19	12	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	4.70	4508.49	13	0.00	0.00	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	3.99	4504.50	14	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	3.99	4500.51	15	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	4.00	4496.51	16	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	2.43	4494.08	17	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	5.57	4488.51	18	0.00	0.00	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	6.00	4482.51	19	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.55	4476.96	20	0.00	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	5.11	4471.85	21	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	5.10	4466.75	22	0.00	0.00	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.25	4461.50	23	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.12	4457.38	24	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.55	4453.83	25	0.00	0.00	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	3.84	4449.99	26	0.00	0.00	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.84	4446.15	27	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	3.56	4442.59	28	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	3.56	4439.03	29	0.00	0.00	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	3.57	4435.46	30	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	4.72	4430.74	31	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	132.94			0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals							OffsetAccount-Consumable Downstream						OffsetAccount-Consumable Kansas Charge							
Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance	Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						4563.68							4563.68							0.00
1	0.00	0.00	0.00	0.00	4.19	4559.49	1	0.00	0.00	0.00	0.00	4.19	4559.49	1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	3.87	4555.62	2	0.00	0.00	0.00	0.00	3.87	4555.62	2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	7.74	4547.88	3	0.00	0.00	0.00	0.00	7.74	4547.88	3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	3.86	4544.02	4	0.00	0.00	0.00	0.00	3.86	4544.02	4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	5.00	4539.02	5	0.00	0.00	0.00	0.00	5.00	4539.02	5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	4.13	4534.89	6	0.00	0.00	0.00	0.00	4.13	4534.89	6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	4.00	4530.89	7	0.00	0.00	0.00	0.00	4.00	4530.89	7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	4.00	4526.89	8	0.00	0.00	0.00	0.00	4.00	4526.89	8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	4.00	4522.89	9	0.00	0.00	0.00	0.00	4.00	4522.89	9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	4.14	4518.75	10	0.00	0.00	0.00	0.00	4.14	4518.75	10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	2.57	4516.18	11	0.00	0.00	0.00	0.00	2.57	4516.18	11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	2.99	4513.19	12	0.00	0.00	0.00	0.00	2.99	4513.19	12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	4.70	4508.49	13	0.00	0.00	0.00	0.00	4.70	4508.49	13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	3.99	4504.50	14	0.00	0.00	0.00	0.00	3.99	4504.50	14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	3.99	4500.51	15	0.00	0.00	0.00	0.00	3.99	4500.51	15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	4.00	4496.51	16	0.00	0.00	0.00	0.00	4.00	4496.51	16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	2.43	4494.08	17	0.00	0.00	0.00	0.00	2.43	4494.08	17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	5.57	4488.51	18	0.00	0.00	0.00	0.00	5.57	4488.51	18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	6.00	4482.51	19	0.00	0.00	0.00	0.00	6.00	4482.51	19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	5.55	4476.96	20	0.00	0.00	0.00	0.00	5.55	4476.96	20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	5.11	4471.85	21	0.00	0.00	0.00	0.00	5.11	4471.85	21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	5.10	4466.75	22	0.00	0.00	0.00	0.00	5.10	4466.75	22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	5.25	4461.50	23	0.00	0.00	0.00	0.00	5.25	4461.50	23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	4.12	4457.38	24	0.00	0.00	0.00	0.00	4.12	4457.38	24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	3.55	4453.83	25	0.00	0.00	0.00	0.00	3.55	4453.83	25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	3.84	4449.99	26	0.00	0.00	0.00	0.00	3.84	4449.99	26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	3.84	4446.15	27	0.00	0.00	0.00	0.00	3.84	4446.15	27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	3.56	4442.59	28	0.00	0.00	0.00	0.00	3.56	4442.59	28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	3.56	4439.03	29													

