

ANNUAL REPORT

OF THE

OPERATIONS SECRETARY

CONCERNING THE OPERATION

OF

JOHN MARTIN RESERVOIR

COMPACT YEAR 2009

SUBMITTED TO THE

OPERATIONS COMMITTEE

ARKANSAS RIVER COMPACT ADMINISTRATION

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SECTION 1

ARKANSAS RIVER COMPACT ADMINISTRATION

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December 01, 2009

Mr. Colin Thompson, Chairman
Arkansas River Compact Administration – Operations Committee, 2008-2009

Mr. David Brenn, Member
Arkansas River Compact Administration – Operations Committee, 2008-2009

Gentlemen,

The purposes of this letter report is to provide you with an accounting summary of the operation of John Martin Reservoir for the 2008-2009 (2009) compact year, which is incorporated and made a part hereof and to document certain activities and accomplishments that occurred within the year in concert with the directions of the Operations Committee.

Summary of Operations November 1, 2008 to October 31, 2009

The 2009 compact year started with a balance for all accounts totaling 32,655.01 acre-feet. In accordance with the 1980 Operating Plan, the 2009 compact year began at 00:00 hours on November 1, 2008 with a period of “winter storage” in which all inflow into John Martin Reservoir accrued to conservation storage. Kansas was notified of this by the Operation Secretary’s staff.

During the period of winter storage from November 1st to April 23rd, 33,606.29 acre-feet was stored. Distribution began on April 7, 2009, in accordance with Section II A and continued at the prescribed rates until exhausted on April 23, 2009, resulting in 32,756.68 acre-feet having been transferred as prescribed by Section II D of the 1980 Operating Plan. See Section 2 -Table I

Beginning on November 16, 2008, and pursuant to the provisions of Section III of the 1980 Operating Plan as subsequently clarified by Resolution 2006-02 of the Arkansas River Compact Administration, the storage of certain “other” inflow was credited to a winter water holding account. See Section 2 – Table II for details. Sixty five percent of the total amount was detained

in this account. This detention in the winter water holding account continued through March 15, 2009, when the distribution of 14,891.94 acre-feet occurred to the appropriate accounts pursuant to Section III D of the 1980 Operating Plan. See Section 2 - Tables VI, VII and VIII. The remaining thirty five percent was transferred out of the winter water holding account each day and distributed as prescribed by Section III D of the 1980 Operating Plan: 222.04 acre-feet of water to complete the fill of the Kansas transit loss account, 2,509.45 acre-feet transferred to the Kansas Section II account and 5,475.09 acre-feet to the Water District 67 winter water storage charge account and thereafter to Colorado Section II accounts (less evaporation). See Section 2 – Table XI for details.

The division of inflow between conservation storage and water stored pursuant to Section III followed established guidelines and resulted in an approximate overall 45 -to- 55 split (conservation to winter water) over the period November 16, 2008 to March 15, 2009. The methodology for determining the conservation storage to winter water ratio was consistent with the method utilized in prior years and a worksheet summarizing the determinations made was provided to the Assistant Operations Secretary's staff. The base flow at the Arkansas River at Las Animas gage was determined during the period November 8th through November 14th with current meter measurements conducted by the USGS on November 4th and by the Colorado Division of Water Resources (CDWR) on November 10th. The base flow was determined to be 51.71 cfs. During the period November 15th through November 25th computations were made to determine the enhanced flow associated with arrival of winter water at the gage. Additional current meter measurements were conducted on November 25th by CDWR and November 18th by the USGS.

Normally accounting of reservoir storage is based on changes of content and no consideration is given to seepage from the reservoir. However, due to maintenance activities by the United States Army Corps of Engineers that began on January 5, 2009 a small increase in flow below John Martin Reservoir occurred which averaged approximately 8.57 cfs through January 15, 2009 (187 acre-feet total). After consultation with the Assistant Operations Secretary, a decision was made to distribute the net reduction in storage that occurred as a result of the enhanced outflow between conservation storage and the storage of water pursuant to Section III proportionally on a daily basis.

During the winter water/conservation storage season there were two adjustments to the ratio of enhanced flow to base flow on February 22nd-28th and on March 9th-15th. The enhanced flow was increased as a result of a decrease in diversions to off-channel storage by the Fort Lyon Storage Canal in order to balance the Winter Water distribution on both occasions. A new ratio was computed for each of these changes and provided to the Assistant Operations Secretary's staff via e-mail on February 23rd and March 4th 2009.

For the period November 1, 2008 to April 1, 2009, conservation storage accumulated 27,928.88 acre-feet. In contrast, the previous year had storage of 26,097.31 acre feet. The 1950 to 1975 historical average winter storage amount is 22,209 acre-feet. See Section 2 – Table I.

The permanent recreation pool was increased by 2,955.96 acre feet during compact year 2009 (gross). In May, the Colorado Division of Wildlife stored this amount of water imported into the Arkansas River basin from the Colorado River basin pursuant to a resolution of the Compact Administration dated April 15, 1980. See Section 2, Table IV. See also correspondence documenting the sources of water included in Section 1, following this narrative summary.

Kansas placed a call for release of water available to them from the Kansas Section II account on June 29, 2009 which continued until July 16, 2009. Following this, releases were continued from the Offset account beginning on July 16, 2009 and ending on July 23, 2009. A total of 21,091.50 acre feet was released out of the Kansas Section II account (See Section 2 – Table IX) and 8,685.49 acre feet was released from the Offset account (See Section 2 – Table III). Because these releases were made consecutively, 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*, dated September 30, 2005 was used to determine that a transit loss of 1346 acre feet resulted to water released from the Kansas Section II account despite the release of all of the water available within the Kansas Transit Loss account in consultation with the Assistant Operations Secretary. See Section 2 – Table XIII.

Transit loss computations and crediting for the Offset Account portion of the release are discussed separately in the Report of the Colorado State Engineer Concerning Accounting of the Operations of an Offset Account in John Martin Reservoir for Colorado Pumping, 2009.

A total of 20,229.0 acre feet was released out of the Colorado Section II accounts. A summary of combined operations of the Colorado Section II accounts is included in Section 2 – Table XII.

There were no events during the summer storage season that resulted in additions to conservation storage

There were four occasion not related to operation of the Pueblo winter storage plan, when it was determined that the Amity Canal was entitled to store a total of 2,968.85 acre-feet of water in its Section III account. Of this amount, 35% or 1,039.09 acre-feet was transferred into the Kansas Transit Loss account, the Kansas Section II account, and the Colorado Water District 67 accounts pursuant to Section III D of the 1980 Operating Plan. The 132.85 acre feet derived from the July 31, 2009 Section III storage was transferred to the Kansas Section II account in partial restitution of the 1346 acre feet of transit loss which occurred earlier in the month, leaving a balance of 1213.15 acre feet to be repaid as of the end of the compact year. See Section 2 – Table VIII

The compact year closed on October 31, 2009 with an ending balance for all accounts in John Martin Reservoir totaling, 22,851.19 acre-feet. See Section 2 – Table XIV.

Section 3 of this report contains the daily accounting for the compact year.

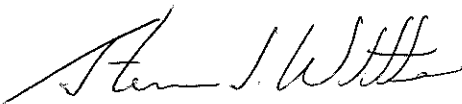
Section 4 contains information provided by and included at the request of the Assistant Operations Secretary that documents operations related to efforts to bypass inflows as required by Section II C (1) of the 1980 Operating Plan and other pass through operations. The Operations Secretary makes no representations regarding the accuracy or reliability of this data.

Summary of Activities Coordinated through Operations Committee

The Operations Committee (Committee) met on one occasion during the 2009 Compact Year. This meeting was held in conjunction with the December 8, 2008 meeting of the Compact Administration. The Operations Secretary and the Assistant Operations Secretary, together with their staff members, met on two specific occasions in an effort to maintain open lines of communication related to operations pertaining to the current Compact Year and in keeping with recommendations approved by the Operations Committee. The first of these occurred on April 14, 2009 in Lamar, Colorado. The second also occurred in Lamar on November 16, 2009. Additionally there were numerous interactions throughout the year which included advisories, inquiries and explanations on various topics.

As suggested by the Operations Committee, there were continued discussions related to procedures used to apportion inflow to John Martin (a.k.a., the "Winter Storage Split" issue. This will be an ongoing subject of discussion in 2010.

Respectfully Submitted,



Steven J. Witte
Arkansas River Compact Administration
Operations Secretary

SECTION 2

SECTION 3

November 2008

SECTION 3

December 2008

SECTION 3

January 2009

SECTION 3

February 2009

SECTION 3

March 2009

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April 2009

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May 2009

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June 2009

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July 2009

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August 2009

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September 2009

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October 2009

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