

<p>DISTRICT COURT, WATER DIVISION NO. 2 COLORADO</p> <p>501 North Elizabeth Street, Suite 116 Pueblo, Colorado 81003 (719) 583-7048</p> <hr/> <p>IN THE MATTER OF THE APPLICATION FOR WATER RIGHTS OF LOWER ARKANSAS WATER MANAGEMENT ASSOCIATION</p> <p>IN THE ARKANSAS RIVER AND ITS TRIBUTARIES</p> <p>IN BENT AND PROWERS COUNTIES</p>	<p>FILED: February 25, 2019 12:27 PM NUMBER: 2015CW3067</p> <p>▲ COURT USE ONLY ▲</p> <hr/> <p>Case Number: 15CW3067</p>
<p>FINDINGS OF FACT, CONCLUSIONS OF LAW, AND DECREE OF THE WATER COURT</p>	

This matter comes before the Water Court upon the Application of Lower Arkansas Water Management Association (“LAWMA”) for a decree approving changes of water rights and the addition of augmentation and replacement supplies to LAWMA’s plan for augmentation decreed in Case No. 02CW181 (“02CW181 Decree”). Having considered the pleadings, the stipulations of the parties, and the evidence presented, and being fully advised in the premises, the Water Court enters the following Findings of Fact, Conclusions of Law, and Decree of the Water Court:

FINDINGS OF FACT

1. **Applicant:** The name, address, and telephone number of the Applicant is Lower Arkansas Water Management Association, 310 Sixth Street, P.O. Box 1161, Lamar, Colorado 81052, (719) 336-9696.
2. **Application, notice, and jurisdiction:** LAWMA filed the application in this matter on December 29, 2015 (“Application”). The Court finds that the Application is complete and covers all matters required by law. Timely and adequate notice of the Application was given in the manner prescribed by law, and the Court has jurisdiction over the subject matter of this proceeding and over all persons, property, and water rights affected hereby, whether or not those persons have appeared. The land and water rights involved herein are not included within the boundaries of a designated ground water basin.
3. **Statements of opposition:** Timely statements of opposition to the Application were filed by the Fort Lyon Canal Company; the Amity Mutual Irrigation Company; Public Service Company of Colorado; Kathleen Gamble-Hughes; May Farms Partnership; the Prowers

Conservation District; John P. Sutphin; Tri-State Generation and Transmission Association, Inc.; Lower Arkansas Valley Water Conservancy District; Arkansas Valley Ditch Association; Five Rivers Cattle Feeding LLC d/b/a/ Colorado Beef; and the City of Lamar. By Order dated December 12, 2016, the Court granted the Unopposed Motion to Intervene filed by the State Engineer and the Division Engineer for Water Division 2. By Orders dated December 13, 2017, the Court dismissed the statements of opposition of John P. Sutphin and the Prowers Conservation District. The time for filing statements of opposition has expired.

4. Summary of Consultation: The Referee consulted with the Division Engineer regarding the Application as required by law. The Division Engineer submitted a Summary of Consultation dated February 12, 2016, and LAWMA filed its Response to the Summary of Consultation on March 16, 2016. Copies of both the Summary of Consultation and LAWMA's Response were properly served on all parties to the case.
5. Stipulations: LAWMA has entered into stipulations with the following parties on the basis that these parties would not oppose entry of a decree at least as restrictive on LAWMA and no less protective of these parties' interests than the version of the decree to which they stipulated: the Fort Lyon Canal Company; the Amity Mutual Irrigation Company; Public Service Company of Colorado; Kathleen Gamble-Hughes; May Farms Partnership; Tri-State Generation and Transmission Association, Inc.; Lower Arkansas Valley Water Conservancy District; Arkansas Valley Ditch Association; Five Rivers Cattle Feeding LLC d/b/a/ Colorado Beef; the City of Lamar; and the State Engineer and the Division Engineer for Water Division 2. The Court has approved the stipulations as orders of the Court. The Court finds that this Decree is at least as restrictive on LAWMA and no less protective of these parties' interests than the earlier versions of this Decree to which these parties stipulated.
6. Description of Application: LAWMA is a non-profit corporation organized for the primary purpose of providing a means for its members to continue to make ground water diversions from wells and other structures with junior priorities and to continue to make surface water diversions from structures with junior priorities in the Arkansas River water rights regime. The purposes of the Application are as follows:
 - 6.1 To change the use of the water rights described in paragraphs 7.1 through 7.4 below ("15CW3067 Water Rights"), which currently are decreed for agricultural irrigation purposes, to allow the water available to those water rights to be used both directly and after storage for augmentation and replacement purposes within LAWMA's plan for augmentation decreed on March 8, 2007, in Case No. 02CW181, Water Division No. 2, as that plan for augmentation has been expanded and modified by the decrees entered in Case Nos. 05CW52, 08CW18,

10CW85, 10CW91, 12CW37, 13CW3004, 13CW3065, 14CW3004, 15CW3014, 16CW3018, 17CW3000, 17CW3001, and 17CW3035 and as it may be expanded or modified in pending Case Nos. 17CW3068, 17CW3069, and 18CW3072 and in other future cases (“Augmentation Plan”); in LAWMA’s annual Arkansas River Replacement Plan pursuant to Rule 14 of the Amended Rules and Regulations Governing the Diversion and Use of Tributary Ground Water in the Arkansas River Basin (“Rule 14 Plan”); and/or in any LAWMA-operated Compact Compliance Plan pursuant to Rule 10 of the Compact Rules Governing Improvements to Surface Water Irrigation Systems in the Arkansas River Basin in Colorado (“Rule 10 Plan”); and to make those water rights available for use for replacement of historical return flows under the decree to be entered in this case, the decree entered in Case No. 02CW181 (“02CW181 Decree”), and any future change of water rights decree that LAWMA obtains in this Court (“Future LAWMA Change Decree”)—provided, however, that LAWMA shall not use the 15CW3067 Water Rights for replacement of historical return flows for the water rights changed under the 02CW181 Decree or a Future LAWMA Change Decree unless and until LAWMA obtains a future Water Court decree providing for such use; and

- 6.2 To add the 15CW3067 Water Rights, as changed herein, as a new source of augmentation and replacement supply under LAWMA’s Augmentation Plan.
- 6.3 The Application also sought confirmation of LAWMA’s appropriation of the historical return flows associated with the 15CW3067 Water Rights, such that LAWMA would replace those historical return flows to the stream only when they were subject to a call senior to the date of the Application. LAWMA hereby withdraws that claim for appropriation of historical return flows.
- 6.4 The Application erroneously recited that LAWMA sought to change the use of 783.5 of the 3,030 shares outstanding of the capital stock of the Granada Irrigation Company (“Granada Company”). In fact, as described in paragraph 7.2 below, LAWMA seeks to change the use of only 750.5 shares of stock in the Granada Company, which are the only shares of Granada Company stock that LAWMA owned at the time of the Application and currently owns. LAWMA hereby withdraws any claim to change the use of more than 750.5 shares of stock in the Granada Company.
- 6.5 The Application did not seek, and this Decree does not confirm, any appropriative rights of exchange.

CHANGE OF WATER RIGHTS

7. Description of water rights to be changed: LAWMA seeks to change the use of the 15CW3067 Water Rights, which are described in paragraphs 7.1 through 7.4 below, and which LAWMA owns.
- 7.1 Lamar Canal: 897 shares of the 26,127 shares outstanding of the capital stock of the Lamar Canal and Irrigation Company ("Lamar Canal Company"). The 897 Lamar Canal Company shares that are the subject of the Application are referred to herein as the "Lamar Canal Shares."
- 7.1.1 Appropriation date, priority, and amount of the Lamar Canal Company's decreed water rights:
- 7.1.1.1 November 30, 1875, Priority No. 3 for 15.75 cfs.
- 7.1.1.2 November 4, 1886, Priority No. 6½ for 72.09 cfs.
- 7.1.1.3 April 16, 1887, Priority No. 7½ for 13.64 cfs.
- 7.1.1.4 July 16, 1890, Priority No. 13 for 184.27 cfs.
- 7.1.2 Original decree: The Lamar Canal Company water rights were decreed in the Adjudication of Priorities to the Use of Water for Irrigation in District Number 67, dated July 1, 1895, in the Bent County District Court ("District 67 General Adjudication").
- 7.1.3 Decreed point of diversion: By decree of the Bent County District Court dated November 9, 1899, Priority Nos. 3, 6½, 7½, and 13 were decreed for diversion at the headgates of the "Home Ranch ditch or the main canal, located on the south bank of the Arkansas river, in the northeast quarter of the southeast quarter of Section 29, of township 22, south of range 46, west of the 6th P.M., in Prowers County, Colorado or through its headgate known as the A.R. Black's Lamar ditch, or Feeder No. one, located on the south bank of the Arkansas River in the northeast quarter of the southwest quarter of section 25, of township 22, south of range 47 west of the 6th P.M., in Prowers County, Colorado or into both the said headgates." By this same decree, Priority No. 13 only was also decreed for diversion at the "headgate of what is called Feeder No. two or the Lamar, Granada and State Line Land and Irrigating Company's ditch, located on the south bank of the Arkansas River, on lot 3, of the northwest quarter of Section 33, of township 22 south of range 47 west of the 6th P.M., in Prowers County, Colorado." The decree

in Case No. W-1836, entered by the District Court in and for Water Division No. 2 on June 21, 1977 ("W-1836 Decree"), confirmed an alternate point of diversion for the Lamar Canal at a point where the pipeline from the steam-electric generating plant of the City of Lamar, Colorado, discharges water from said plant into the Lamar Canal, which point is located on the South bank of said Canal whence the Northwest corner of Section 31, T22S, R46W of the 6th P.M. bears North 10°44'26" East, 1,342.6 feet, subject to a maximum rate of diversion at said alternate point of 37.8 cfs, and subject to the condition that all water diverted at said alternate point be charged to the water rights of the Lamar Canal Company. The Lamar Canal's river headgate is located on the south bank of the Arkansas River in the NE¼ of the SW¼ of Section 25, Township 22 South, Range 47 West of the 6th P.M. in Prowers County, consistent with the decreed point of diversion for the A.R. Black's Lamar ditch, or Feeder No. one described above and was the headgate used during the study period described in paragraph 8 below.

7.1.4 Source: The Arkansas River and, pursuant to the W-1836 Decree, ground water tributary to the Arkansas River.

7.1.5 Decreed use: Irrigation.

7.1.6 Pro-rata interest in the Lamar Canal Company water rights to be changed: The 897 Lamar Canal Shares represent a pro-rata interest in the Lamar Canal Company water rights as follows:

7.1.6.1 Priority No. 3: 0.54 cfs of the 15.75 cfs.

7.1.6.2 Priority No. 6½: 2.48 cfs of the 72.09 cfs.

7.1.6.3 Priority No. 7½: 0.47 cfs of the 13.64 cfs.

7.1.6.4 Priority No. 13: 6.33 cfs of the 184.27 cfs.

7.2 Granada Irrigation Company: 750.5 of the 3,030 shares outstanding of the capital stock of the Granada Company. The Granada Company owns 10,600 shares of the capital stock of the Lamar Canal Company, or approximately 41% of the 26,127 shares outstanding in the Lamar Canal Company; therefore, one share of the capital stock of the Granada Company equates to approximately 3.498 shares of capital stock of the Lamar Canal Company. The 750.5 Granada Company shares that are the subject of the Application are referred to herein as the "Granada Shares."

- 7.2.1 Appropriation date, priority, and amount of the Lamar Canal Company's decreed water rights: As described in paragraph 7.1.1 above.
- 7.2.2 Original decree: As described in paragraph 7.1.2 above.
- 7.2.3 Decreed point of diversion: As described in paragraph 7.1.3 above.
- 7.2.4 Source: As described in paragraph 7.1.4 above.
- 7.2.5 Decreed use: As described in paragraph 7.1.5 above.
- 7.2.6 Pro-rata interest in the Lamar Canal Company water rights to be changed:
Based on the Granada Company's ownership of 10,600 shares of stock in the Lamar Canal Company, the 750.5 Granada Shares represent 2,625.51 shares of stock in the Lamar Canal Company. Therefore, the 750.5 Granada Shares equate to the following pro-rata interest in the Lamar Canal Company water rights:
 - 7.2.6.1 Priority No. 3: 1.58 cfs of the 15.75 cfs.
 - 7.2.6.2 Priority No. 6½: 7.24 cfs of the 72.09 cfs.
 - 7.2.6.3 Priority No. 7½: 1.37 cfs of the 13.64 cfs.
 - 7.2.6.4 Priority No. 13: 18.52 cfs of the 184.27 cfs.
- 7.3 XY Canal: 2.0 cfs of the 69.0 cfs decreed to the XY Irrigating Ditch Company's Canal ("XY Canal"). The 2.0 cfs interest in the XY water right that is the subject of the Application is referred to herein as the "XY 2.0 cfs."
 - 7.3.1 Appropriation date, priority, and amount of the XY Canal's decreed water rights: July 22, 1889, Priority No. 11 for 69.0 cfs.
 - 7.3.2 Original decree: The District 67 Original Adjudication.
 - 7.3.3 Decreed point of diversion: The decreed headgate location is "on the south bank of the Arkansas River in the northeast quarter of the northwest quarter of section numbered 36 of township 22 south of range 45 west of the 6th P.M. in Prowers County, Colorado."
 - 7.3.4 Source: The Arkansas River.
 - 7.3.5 Decreed use: Irrigation.

7.3.6 Pro-rata interest in the XY Canal water rights to be changed: 2.0 cfs of the 69.0 cfs decreed to the XY Canal. The remaining 67.0 cfs of the 69.0 cfs decreed to the XY Canal is owned by LAWMA and was changed in Case No. 02CW181.

7.4 Article II Storage Account Water: Section II of the Resolution Concerning an Operating Plan for John Martin Reservoir, adopted on April 24, 1980 and amended on May 10, 1984, December 11, 1984, and February 11, 2010 (“1980 Operating Plan”), provides that 60% of the water attributable to conservation storage in John Martin Reservoir shall be for the Colorado Water District 67 ditches including the Fort Bent Ditch, the Keesee Ditch, the Amity Canal, the Lamar Canal, the Hyde Ditch, the Manvel Canal, the X-Y and Graham Canal, the Buffalo Canal, and the Sisson-Stubbs Ditch; and that 40% of the water attributable to conservation storage in John Martin Reservoir shall be for Kansas. In this Decree, the accounts in John Martin Reservoir in which such water is stored are referred to as “Article II Storage Accounts,” and the water stored in such accounts is referred to as “Article II Water.” Under the 1980 Operating Plan, Kansas and the Colorado Water District 67 ditches may demand the release of water from their respective Article II Storage Accounts at any time and at any rate. The 1980 Operating Plan provides that the Colorado Water District 67 ditches’ share of water released from conservation storage in John Martin Reservoir is distributed to those ditches’ respective Article II Storage Accounts as follows:

Fort Bent Ditch	9.9%
Keesee Ditch	2.3%
Amity Canal	49.5%
Lamar Canal	19.8%
Hyde Ditch	1.3%
Manvel Canal	2.4%

X-Y and Graham Ditch	5.1%
Buffalo Canal	8.5%
Sisson-Stubbs Ditch	1.2%

LAWMA is entitled to use the Article II Water associated with the Lamar Canal Shares and the Granada Shares and seeks to change that Article II Water in this case. LAWMA previously changed all of the X-Y and Graham Ditch Article II Water in Case No. 02CW181 and therefore does not seek to change any X-Y and Graham Ditch Article II Water in this case.

8. Historical use of the 15CW3067 Water Rights: The 15CW3067 Water Rights were used historically on the farms shown on the maps attached as **Exhibits A-1, B-1, and C-1**. LAWMA's engineering consultant, Hendrix Wai Engineering, Inc., has quantified the historical consumptive use attributable to the 15CW3067 Water Rights and has determined the amount, timing, and location of return flows resulting from the historical use of those water rights. The historical use analysis for the 15CW3067 Water Rights is summarized in paragraphs 8.1 through 8.3 below.

- 8.1 Lamar Canal Shares: The 897 shares of the 26,127 shares outstanding of the capital stock of the Lamar Canal Company that LAWMA seeks to change in this case represent approximately 3.43% of the Lamar Canal Company water rights, including associated Lamar Canal Company Article II Water. As used throughout this Decree, the term "Lamar Canal Shares" includes the Lamar Canal Company Article II Water associated with those 897 shares.

- 8.1.1 The Lamar Canal Shares historically were used for agricultural irrigation purposes on the land shown on the map attached as **Exhibit A-1** ("Lamar Canal Historically Irrigated Land"). The number of acres irrigated with the Lamar Canal Shares varied from year to year within the 1950 through 2013 study period but averaged 779. Based on recorded diversion records for the study period, the historical pro-rata river headgate diversions for the Lamar Canal Shares averaged 1,387.2 acre-feet per year (1,256.5 acre-feet for the months of April through October and 130.7 acre-feet for the months of November through March), or approximately 1.5 acre-feet per Lamar Canal Share. Those diversions included water available to the Lamar Canal Shares under the Lamar Canal direct-flow water rights, John Martin

Reservoir conservation pool water that was diverted by the Lamar Canal, and Article II Water that was diverted by the Lamar Canal. The historical farm headgate delivery for LAWMA's Lamar Canal Shares averaged 1,204.1 acre-feet per year, and averaged 1,090.6 acre-feet per irrigation season (April 1 through October 31). The historical depletions associated with the Lamar Canal Shares averaged 71% of farm headgate deliveries, or approximately 855.0 acre-feet per year.

8.1.2 LAWMA acquired the Lamar Canal Shares in 2014.

8.2 Granada Shares: LAWMA owns 750.5 of the 3,030 shares outstanding of the capital stock of the Granada Company, or approximately 24.8% of the Granada Company water rights. As described in paragraph 7.2 above, one share of the capital stock of the Granada Company equates to approximately 3.498 shares of capital stock of the Lamar Canal Company. As used throughout this Decree, the term "Granada Shares" includes the Lamar Canal Company Article II Water associated with those shares.

8.2.1 The Granada Shares historically were used for agricultural irrigation purposes on the land shown on the map attached as **Exhibit B-1** ("Granada Historically Irrigated Land"). **Exhibit B-1** also shows the location of the Granada Irrigation Company Ditch ("Granada Lateral"). The number of acres irrigated with the Granada Shares varied from year to year within the 1950 through 2013 study period but averaged 716. Based on recorded diversion records for the Lamar Canal for the study period, the historical pro-rata river headgate diversions for the Granada Shares averaged 4,060.2 acre-feet per year (3,677.6 acre-feet for the months of April through October and 382.6 acre-feet for the months of November through March), or approximately 5.4 acre-feet per Granada Share. Those diversions included water available to the Granada Shares under the Lamar Canal direct-flow water rights, John Martin Reservoir conservation pool water that was diverted by the Lamar Canal, and Article II Water that was diverted by the Lamar Canal. The historical farm headgate delivery for the Granada Shares averaged 3,524.3 acre-feet per year and averaged 3,192.2 acre-feet per irrigation season (April 1 through October 31). The historical depletions associated with the Granada Shares averaged 44.0% of farm headgate deliveries, or approximately 1,550.34 acre-feet per year.

8.2.2 LAWMA acquired 436 of the Granada Shares in 2014 ("Grasmick Granada Shares"). LAWMA acquired the right to use the remaining 314.5 Granada

Shares in 2015 (“Gass Granada Shares”), and became the owner of those shares in 2017.

8.3 XY 2.0 cfs: LAWMA owns the entire 69.0 cfs decreed to the XY Canal, along with all of the XY and Graham Article II Water. LAWMA previously changed 67.0 cfs of the XY Canal water right and all of the XY and Graham Article II Water in the 02CW181 Decree; that portion of the XY Canal water right and all of the XY and Graham Article II Water are not included in the 15CW3067 Water Rights and are not before the Court in this case. The XY 2.0 cfs is the only portion of the XY Canal water right being changed in this case.

8.3.1 The XY 2.0 cfs historically was used for agricultural irrigation purposes on the land shown on the map attached as **Exhibit C-1** (“XY Historically Irrigated Land”). The number of acres irrigated with the XY 2.0 cfs varied from year to year within the 1950 through 1993 study period but averaged 186. Based on recorded diversion records for the XY Canal for the study period, the historical pro-rata river headgate diversions for the XY 2.0 cfs averaged 147.0 acre-feet per year (136.2 acre-feet for the months of April through October and 10.8 acre-feet for the months of November through March). The historical farm headgate delivery for the XY 2.0 cfs averaged approximately 131.0 acre-feet per year and averaged 121.5 acre-feet per irrigation season (April 1 through October 31). The historical depletions associated with the XY 2.0 cfs averaged 61.1% of pro-rata river headgate diversions, or approximately 89.8 acre-feet per year.

8.3.2 LAWMA acquired the XY 2.0 cfs in 2014.

9. Historical consumptive use: A portion of the 15CW3067 Water Rights historically applied to irrigation was consumed. Water so consumed was lost to the Arkansas River system and not available for other uses. The amount of water changed to the New Uses described in paragraph 14.1 below is based upon the historical depletion associated with the 15CW3067 Water Rights.

10. Historical return flows: A portion of the 15CW3067 Water Rights historically applied to irrigation returned to the stream system as return flow (“Historical Return Flows”). LAWMA will replace Historical Return Flows in accordance with paragraphs 15.2, 15.7, 16.2, 16.7, 17.2, and 17.6 below. Some of the Historical Return Flows returned as surface water during the irrigation season and some of the Historical Return Flows returned as ground water during and after the irrigation season. The amounts and timing of return flow varied with conditions. LAWMA shall replace the Historical Return Flows to the Arkansas River on a daily basis during the irrigation season (April 1 through October 31) in accordance with the terms and conditions of this Decree. To the extent the Historical

Return Flows accrued above downstream calling water rights, LAWMA shall replace them to the river at or above the point of diversion of any such downstream calling water right. LAWMA's replacement of Historical Return Flows in accordance with the terms and conditions of this Decree will prevent injury to vested water rights in Colorado and will not cause a violation of the Arkansas River Compact, § 37-69-101, C.R.S. ("Compact").

11. Historical depletions: As more specifically described in paragraphs 8.1 through 8.3 above, the historical use of the 15CW3067 Water Rights resulted in depletions to the stream system. The terms and conditions of this Decree are sufficient to prevent an expansion of the historical use and depletions attributable to the 15CW3067 Water Rights as a result of the changes approved herein, and will not cause a violation of the Compact.
12. Dry-up of historically irrigated lands: The lands historically irrigated with the 15CW3067 Water Rights, as shown in attached **Exhibits A-1, B-1, and C-1** ("Historically Irrigated Lands"), have been removed from irrigation with the 15CW3067 Water Rights. As of the date of entry of this Decree, the Historically Irrigated Lands have been dried up or are being re-irrigated with the permissible sources of water described in paragraph 20.2 below. Due to the removal of the 15CW3067 Water Rights from the Historically Irrigated Lands in accordance with the terms and conditions of this Decree, the historical consumptive use attributable to the irrigation of those lands with the 15CW3067 Water Rights has ceased. Dry-up of the Historically Irrigated Lands will be administered in accordance with paragraph 50 below and Appendix B.3 of the decree entered in Kansas v. Colorado, No. 105, Original (Administration of Parcels Claimed for Augmentation Agreement) ("Appendix B.3"). Should Kansas dispute LAWMA's entitlement to dry-up credit for any portion of the Historically Irrigated Lands, such disputes must be resolved per paragraph 5 of Appendix B.3.
13. Maintenance of historical stream conditions: Irrigation of the Historically Irrigated Lands with the 15CW3067 Water Rights historically resulted in impacts to stream flows that varied from year to year. The terms and conditions imposed by this Decree are designed to and will yield varying amounts of water for the New Uses described in paragraphs 14.1.1 through 14.1.5 below depending upon conditions, but will reasonably approximate and not exceed historical use and thereby prevent injury to other water rights and prevent a violation of the Compact.
14. Change of water rights: The Application requested approval of the following changes of the 15CW3067 Water Rights. The changes are approved subject to the terms and conditions of this Decree.
 - 14.1 New types of use: The Application requested that the type of use of the 15CW3067 Water Rights be changed such that they may be used for the following new purposes at the new places of use described in paragraph 14.2 below, in addition to

their currently decreed purpose of agricultural irrigation. LAWMA hereby withdraws its request for the continued use of the 15CW3067 Water Rights for their originally decreed purpose of agricultural irrigation, and instead will use the 15CW3067 Water Rights only for the following changed purposes:

- 14.1.1 Augmentation or replacement of out-of-priority depletions and depletions to Stateline flows caused by the “LAWMA Structures” included in the Augmentation Plan decreed in Case No. 02CW181, as expanded and modified by the decrees entered in Case Nos. 05CW52, 08CW18, 10CW85, 10CW91, 12CW37, 13CW3004, 13CW3065, 14CW3004, 15CW3014, 17CW3000, 17CW3001, 16CW3018, and 17CW3035, and as it may be expanded or modified in pending Case Nos. 17CW3068, 17CW3069, and 18CW3072 and in other future cases, and as the term “LAWMA Structures” is defined in those decrees, to the extent such depletions can be replaced downstream from John Martin Reservoir without injury;
 - 14.1.2 Augmentation or replacement of out-of-priority depletions and depletions to Stateline flows caused by the wells included in LAWMA's Rule 14 Plan, to the extent such depletions can be replaced downstream from John Martin Reservoir without injury;
 - 14.1.3 Replacement of Historical Return Flows attributable to the 15CW3067 Water Rights; and
 - 14.1.4 Replacement of historical return flows for the water rights changed under the 02CW181 Decree or Future LAWMA Change Decrees to the extent such depletions can be replaced downstream from John Martin Reservoir without injury—provided, however, that LAWMA shall not use the 15CW3067 Water Rights for replacement of historical return flows for the water rights changed under the 02CW181 Decree or a Future LAWMA Change Decree unless and until LAWMA obtains a future Water Court decree providing for such use;
 - 14.1.5 Replacement of historical seepage losses and/or return flows under any Rule 10 Plan operated by LAWMA.
 - 14.1.6 The new uses described in paragraphs 14.1.1 through 14.1.5 above are referred to collectively in this Decree as the “New Uses.”
- 14.2 New places of use: In accordance with the New Uses, the Application requested that the place of use of the 15CW3067 Water Rights be changed from the historical place of use to other locations in the Arkansas River Basin that are at or downstream

from John Martin Reservoir. Subject to the above-stated limitations, the locations of the New Uses will be the locations at which LAWMA delivers augmentation or replacement water to the Arkansas River downstream from John Martin Reservoir and as required by LAWMA's Augmentation Plan, Rule 14 Plan, any LAWMA-operated Rule 10 Plan, or any future Water Court decree providing for use of the 15CW3067 Water Rights to replace historical return flows for the water rights changed under the 02CW181 Decree or a Future LAWMA Change Decree.

14.3 New manner of use and place of storage: The Application requested that the Lamar Canal Shares and the Granada Shares be changed such that they may be used for the New Uses both directly and after storage in the structure described in paragraph 14.3.1 below.

14.3.1 Fully consumable water derived from farm headgate deliveries of the Lamar Canal Shares and the Granada Shares may be stored in the West Farm Gravel Pit, which is located in the S $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 28 and in the NE $\frac{1}{4}$ and the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 33, Township 22 South, Range 46 West of the 6th P.M. in Prowers, County, Colorado, as shown on **Exhibit D**. As confirmed by a letter dated February 16, 2016, from the Office of the Division Engineer, the first storage cell of the West Farm Gravel Pit has been lined in accordance with the State Engineer's lining criteria ("Lining Criteria"). Before water is stored in any future cell of the West Farm Gravel Pit, that cell must have been lined in accordance with the Lining Criteria. As of the date of this Decree, no water right has been claimed by LAWMA or decreed for the West Farm Gravel Pit and this decree only authorizes storage of the Lamar Canal Shares and the Granada Shares in the West Farm Gravel Pit.

14.3.2 LAWMA may store its full farm headgate deliveries associated with the Lamar Canal Shares and the Granada Shares, so long as all Historical Return Flows for the Lamar Canal Shares and the Granada Shares decreed herein are replaced by LAWMA in accordance with the terms and conditions of this Decree.

14.3.3 Article II Water that was stored in John Martin Reservoir in the Lamar Canal Company account ("Lamar Article II Water") may not be re-stored in the West Farm Gravel Pit without approval from the Arkansas River Compact Administration ("ARCA") and subsequent approval by this Court pursuant to the procedures described below. Such water may be used for the New Uses by release through the augmentation stations described in paragraph 15.1 below. These uses constitute prompt beneficial use and do

not require ARCA approval under the Compact. If LAWMA desires to re-store Lamar Article II Water, LAWMA will apply to ARCA for authorization to re-store such water in the West Farm Gravel Pit. The Court shall retain jurisdiction, as provided in paragraph 48.6 below, to consider whether ARCA's action with respect to a request by LAWMA to re-store water in the West Farm Gravel Pit requires any further or different terms and conditions in this Decree with respect to such re-storage. LAWMA shall invoke such jurisdiction within 12 months after action by ARCA on LAWMA's request.

- 14.4 Full consumption and use to extinction: Provided that LAWMA replaces the Historical Return Flows attributable to the 15CW3067 Water Rights in accordance with the terms and conditions of this Decree, LAWMA will fully consume and use to extinction the consumptive use stream credits attributable to the 15CW3067 Water Rights during LAWMA's initial use of such credits for augmentation or replacement.
15. Lamar Canal terms and conditions to prevent injury: The following terms and conditions will prevent injury from LAWMA's use of the Lamar Canal Shares as changed herein:
- 15.1 The Lamar Canal Shares, including but not limited to all Article II Water associated with the Lamar Canal Shares, will continue to be diverted at the Lamar Canal river headgate, and the farm headgate deliveries will be delivered to and measured at one or more of the following locations:
- 15.1.1 West Farm Augmentation Station, located in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 29, Township 22 South, Range 46 West of the 6th P.M. in Prowers County, Colorado.
- 15.1.2 Center Farm Augmentation Station, located in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 31, Township 22 South, Range 45 West of the 6th P.M. in Prowers County, Colorado.
- 15.1.3 Granada East Augmentation Station, located in the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 1, Township 23 South, Range 44 West of the 6th P.M. in Prowers County, Colorado.
- 15.1.4 Granada West Augmentation Station, located in the located in the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 2, Township 23 South, Range 44 West of the 6th P.M. in Prowers County, Colorado.
- 15.1.5 West Farm Gravel Pit, located as described in paragraph 14.3.1 above.

- 15.2 To quantify the consumptive use stream credits that may be applied to the New Uses, LAWMA shall apply the following monthly consumptive use factors to the farm headgate deliveries available to the Lamar Canal Shares, as those farm headgate deliveries are measured at the locations described in paragraph 15.1 above. LAWMA shall quantify Historical Return Flows as the portion of the farm headgate deliveries that is not quantified as consumptive use stream credits.

April	May	June	July	Aug.	Sept.	Oct.
79.9%	80.2%	81.4%	80.4%	76.5%	71.2%	65.9%

- 15.3 In addition to the augmentation stations described in paragraph 15.1 above, LAWMA may use another augmentation station on the Lamar Canal for the delivery of the Lamar Canal Shares by filing a petition with the Court in this matter and in Case No. 02CW181 and following the procedure described in paragraph 47.D. of the 02CW181 Decree. In any such petition, LAWMA shall include the following information: (1) the location of the proposed new augmentation station by quarter-quarter section; (2) the stream or structure to which water will be delivered; (3) a description of how losses, if any, between the new augmentation station and the point of introduction to the receiving stream will be determined; (4) a description of how losses, if any, between the point of introduction to the receiving stream and the place of use of the water will be determined; (5) a description of all measuring devices proposed to be used in connection with the new augmentation station; and (6) updated accounting forms containing the information required by paragraph 44 and the necessary information to account for use of the new augmentation station for delivery of the Lamar Canal Shares.
- 15.4 After delivery to the Arkansas River at one or more of the augmentation stations described in paragraph 15.1 above or an augmentation station added to this Decree pursuant to paragraph 15.3 above, the consumptive use stream credits derived from the Lamar Canal Shares will be left undiverted in the Arkansas River for the New Uses.
- 15.5 LAWMA may divert and use the Lamar Canal Shares only between April 1 and October 31 when the Lamar Canal Company water rights are in priority. When water is available to the Lamar Canal Shares under paragraph 15.14 below, LAWMA shall take delivery of the Lamar Canal Shares' pro-rata volume of Lamar Canal Company deliveries; provided, however, that at any given time, LAWMA's deliveries may vary by up to one rotation. If and when LAWMA reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree, this pro-rata requirement will not apply and LAWMA shall take deliveries to the Lamar Canal

Shares in accordance with the provisions of paragraph 15.14 and either 15.12 or 15.13 below.

- 15.6 The Historical Return Flows associated with the Lamar Canal Shares accrued to the Arkansas River above the headgate of the Buffalo Canal. To prevent injury to vested water rights, during the irrigation season (April 1 through October 31) LAWMA shall maintain Historical Return Flows for the Lamar Canal Shares by limiting the consumptive use stream credits for the Lamar Canal Shares as provided in paragraph 15.2 of this Decree and delivering the Historical Return Flow component of the farm headgate delivery to the Arkansas River through one or more of the augmentation stations described in paragraph 15.1 above or an augmentation station added to this Decree pursuant to paragraph 15.3 above.
- 15.7 To prevent injury to vested water rights, during the non-irrigation season (November 1 through March 31), LAWMA shall maintain Historical Return Flows for the Lamar Canal Shares as follows:
- 15.7.1 LAWMA shall not take delivery of the Lamar Canal Shares from November 1 through March 31. LAWMA shall forgo any diversions and consumptive use stream credits for the Lamar Canal Shares and leave the Historical Return Flows undiverted in the Arkansas River. To the extent the Lamar Canal diverts during the non-irrigation season, LAWMA shall divert all water available to the Lamar Canal Shares and measure and return the full farm headgate delivery, less ditch loss, promptly to the Arkansas River, without taking consumptive use stream credits, through one or more of the augmentation stations described in paragraph 15.1 above or an augmentation station added to this Decree pursuant to paragraph 15.3 above.
- 15.7.2 LAWMA's engineers have determined that because LAWMA will not be taking delivery of water available to the Lamar Canal Shares in the non-irrigation season, the operation of the condition set forth in paragraph 15.7.1 above will result in over-replacement of historical non-irrigation season return flows for the Lamar Canal Shares ("Lamar Winter Return Flows") in the average annual amount of 12.38 acre-feet. Accordingly, the Court finds that the operation of the condition set forth in paragraph 15.7.1 will replace the Lamar Winter Return Flows in a manner that will prevent injury to Colorado water users and will prevent injury to Kansas's rights under the Compact.
- 15.8 LAWMA shall limit farm headgate deliveries to the Lamar Canal Shares to the volumes described in this paragraph 15.8 and its incorporated table. Farm headgate

deliveries attributable to the Lamar Canal Shares from April 1 through October 31 will be limited to a maximum cumulative volume of 69,799 acre-feet in any 64-year period; to a maximum annual volume of 1,959 acre-feet; and to the following maximum and 20-year cumulative monthly volumes:

Month	April	May	June	July	August	September	October
Maximum volume (acre-feet)	340	333	442	446	367	292	249
20-year cumulative maximum (acre-feet)	3,486	4,204	5,189	5,647	4,337	3,806	2,981

- 15.9 For purposes of starting the calculation of the 20-year cumulative maximum monthly farm headgate delivery limits, for the 19 years prior to the first year in which the Lamar Canal Shares or any portion thereof are used pursuant to this Decree, LAWMA shall assume that the farm headgate deliveries were equal to the following monthly volumes per year: April, 165.6 acre-feet; May, 203.8 acre-feet; June, 249.8 acre-feet; July, 273.7 acre-feet; August, 209 acre-feet; September, 184.9 acre-feet; and October, 143.8 acre-feet.
- 15.10 LAWMA shall limit consumptive use stream credits available under the Lamar Canal Shares to a maximum cumulative volume of 54,724 acre-feet in any 64-year period.
- 15.11 For purposes of starting the calculation of the 64-year cumulative farm headgate delivery limit and the 64-year consumptive use stream depletion credit limit, for the 63 years prior to the first year in which the Lamar Canal Shares, or any portion thereof, are used pursuant to this Decree, LAWMA shall assume that the farm headgate deliveries were equal to 1,074.1 acre-feet per year and that the consumptive use stream depletion credits were equal to 845.5 acre-feet per year.
- 15.12 If and when LAWMA reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and there is water available to the Lamar Canal Shares under paragraph 15.14 below, diversions into the Lamar Canal will be limited as follows:
 - 15.12.1 Diversions under the Lamar Canal Company's direct flow water rights will be limited to the amounts listed in section 4 of the table below. Diversions under the Lamar Canal Company's direct flow water rights only include diversions under Priority Nos. 3, 6½, 7½, and 13 decreed in the District 67

General Adjudication and do not include diversions of Lamar Canal Company's Article II Water.

1. Priority No.	2. Decreed Flowrate (cfs)	3. Lamar Canal Shares' CU Component (cfs)							4. Maximum Allowable Lamar Canal Diversion (cfs) (Col. 2- Col. 3)						
		Apr	May	Jun	Jul	Aug	Sep	Oct	Apr	May	Jun	Jul	Aug	Sep	Oct
3	15.75	0.38	0.38	0.38	0.38	0.36	0.33	0.31	15.37	15.37	15.37	15.37	15.39	15.42	15.44
6.5	72.09	1.72	1.72	1.75	1.73	1.64	1.53	1.42	70.37	70.37	70.34	70.36	70.45	70.56	70.67
7.5	13.64	0.32	0.33	0.33	0.33	0.31	0.29	0.27	13.32	13.31	13.31	13.31	13.33	13.35	13.37
13	184.27	4.39	4.40	4.47	4.42	4.20	3.91	3.62	179.88	179.87	179.80	179.85	180.07	180.36	180.65
Total	285.75	6.80	6.83	6.93	6.85	6.51	6.06	5.61	278.95	278.92	278.82	278.90	279.24	279.69	280.14

If less direct flow water rights water is available at the Lamar Canal's Arkansas River headgate in priority than the limits in section 4 of the table above, the Lamar Canal Company will be entitled to divert the entire amount available in priority.

15.12.2 If and when LAWMA reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and there is water available to the Lamar Canal Shares under paragraph 15.14 below, LAWMA shall continue to take delivery of the return flow component of the Lamar Canal Shares' share of Lamar Canal diversions and return that component to the Arkansas River pursuant to paragraph 15.6 above. The continued delivery of the Lamar Canal Shares' return flow component when LAWMA has reached a volumetric limit on the Lamar Canal Shares will not count against the volumetric limits on the Lamar Canal Shares. At any time the Lamar Canal Company is not diverting water for delivery to shares other than the Lamar Canal Shares, LAWMA shall not require the Lamar Canal Company to call for or divert water solely to satisfy this term and condition; and in that circumstance, LAWMA will not be and is not to be deemed out of compliance with this term and condition.

15.12.3 If and when LAWMA reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and the Lamar Canal Company calls for water stored in the Lamar Canal Company's Article II account in John Martin Reservoir, LAWMA shall not take delivery of the consumptive use component of the Lamar Canal Shares' share of the amount of such water diverted into the Lamar Canal.

15.12.4 The terms and conditions included in this paragraph 15.12 are administrable using the Lamar Canal Company's existing diversion and measurement infrastructure.

15.13 If and when LAWMA simultaneously reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and a volumetric limit imposed on the Granada Shares by this Decree, and there is water available to the Lamar Canal Shares under paragraph 15.14 below and to the Granada Shares under paragraph 16.13 below, diversions into the Lamar Canal will be limited as described in paragraph 16.14 below.

15.14 The Lamar Canal historically has operated on a rotational basis from time to time, and such operations are expected to continue. For purposes of determining (a) when LAWMA must take delivery of the Lamar Canal Shares' under paragraph 15.5 above and (b) limitations on diversions into the Lamar Canal under paragraph 15.12 above or paragraph 16.13 below, water will be deemed to be available to the Lamar Canal Shares when the Lamar Canal is operating on a rotational basis and the Lamar Canal Shares are in rotation and will not be deemed to be available to the Lamar Canal Shares when the Lamar Canal is operating on a rotational basis and the Lamar Canal Shares are not in rotation.

15.15 LAWMA's entitlement to use consumptive use credits available to the Lamar Canal Shares for the New Uses is subject to the actual dry-up of the Lamar Canal Historically Irrigated Land. LAWMA holds recorded dry-up covenants on each of the five tracts that make up the Lamar Canal Historically Irrigated Land. Those covenants run with the land and require the landowners to dry up the tracts in accordance with their specific terms, and LAWMA is therefore entitled to such dry-up. The Lamar Canal Historically Irrigated Land dried up in accordance with this paragraph 15.15 will not be irrigated with water diverted under the Lamar Canal Shares, or with any other source of water except as described in paragraph 20.2 below.

16. Granada Lateral terms and conditions to prevent injury: The following terms and conditions will prevent injury from LAWMA's use of the Granada Shares as changed herein:

16.1 The Granada Shares, including but not limited to all Article II Water associated with the Granada Shares, will continue to be diverted at the Lamar Canal river headgate, and the farm headgate deliveries will be delivered to and measured at one or more of the following locations:

- 16.1.1 West Farm Augmentation Station, located as described in paragraph 15.1.1 above.
- 16.1.2 Center Farm Augmentation Station, located as described in paragraph 15.1.2 above.
- 16.1.3 Granada East Augmentation Station, located as described in paragraph 15.1.3 above.
- 16.1.4 Granada West Augmentation Station, located as described in paragraph 15.1.4 above.
- 16.1.5 West Farm Gravel Pit, located as described in paragraph 14.3.1 above.

16.2 To quantify the consumptive use stream credits that may be applied to the New Uses, LAWMA shall apply the following monthly consumptive use factors to the farm headgate deliveries available to the Granada Shares, as those farm headgate deliveries are measured at the locations described in paragraph 16.1 above. LAWMA shall quantify Historical Return Flows as the portion of the farm headgate deliveries that is not quantified as consumptive use stream credits.

April	May	June	July	Aug.	Sept.	Oct.
63.0%	63.8%	67.3%	66.1%	59.0%	47.9%	34.2%

- 16.3 In addition to the augmentation stations described in paragraph 16.1 above, LAWMA may use another augmentation station on the Lamar Canal for the delivery of the Granada Shares by filing a petition with the Court in this matter and in Case No. 02CW181 and following the procedure described in paragraph 47.D. of the 02CW181 Decree and the further procedure described in paragraph 15.3 above.
- 16.4 After delivery to the Arkansas River through one or more of the augmentation stations described in paragraph 16.1 above or an augmentation station added to this Decree pursuant to paragraph 16.3 above, the consumptive use stream credits derived from the Granada Shares will be left undiverted in the Arkansas River for the New Uses.
- 16.5 LAWMA may divert and use the Granada Shares only between April 1 and October 31 when the Lamar Canal Company water rights are in priority. When there is water available to the Granada Shares under paragraph 16.13 below, LAWMA shall take delivery of the Granada Shares' pro-rata volume of Granada Company deliveries; provided, however, that at any given time, LAWMA's

deliveries may vary by up to one rotation. If and when LAWMA reaches a volumetric limit imposed on the Granada Shares by this Decree, this pro-rata requirement will not apply and LAWMA shall take deliveries to the Granada Shares in accordance with the provisions of paragraph 16.12 or 16.14 and 16.13 below.

16.6 The Historical Return Flows associated with the Granada Shares accrued to the Arkansas River above the headgate of the Buffalo Canal. To prevent injury to vested water rights, during the irrigation season (April 1 through October 31) LAWMA shall maintain Historical Return Flows for the Granada Shares by limiting the consumptive use stream credits for the Granada Shares as provided in paragraph 16.2 of this Decree and delivering the Historical Return Flow component of the farm headgate delivery to the Arkansas River through one or more of the augmentation stations described in paragraph 16.1 above or an augmentation station added to this Decree under paragraph 16.3 above.

16.7 To prevent injury to vested water rights, during the non-irrigation season (November 1 through March 31), LAWMA shall maintain Historical Return Flows for the Granada Shares as follows:

16.7.1 LAWMA shall not take delivery of the Granada Shares from November 1 through March 31. LAWMA shall forgo any diversions and consumptive use stream credits for the Granada Shares and leave the Historical Return Flows undiverted in the Arkansas River. To the extent the Lamar Canal diverts during the non-irrigation season, LAWMA shall divert all water available to the Granada Shares and measure and return the full farm headgate delivery, less ditch loss, promptly to the Arkansas River, without taking consumptive use stream credits, through one or more of the augmentation stations described in paragraph 16.1 above or an augmentation station added to this Decree under paragraph 16.3 above.

16.7.2 LAWMA's engineers have determined that because LAWMA will not be taking delivery of water available to the Granada Shares in the non-irrigation season, the operation of the condition set forth in paragraph 16.7.1 above, without more, would result in under-replacement of historical non-irrigation season return flows for the Granada Shares ("Granada Winter Return Flows") in the average annual amount of 342.95 acre-feet. The Granada Winter Return Flows are a component of the Historical Return Flows. To prevent injury to vested water rights and to Kansas's rights under the Compact, LAWMA shall take the following additional action to replace non-irrigation season return flows for the Granada Shares: At the beginning of each irrigation season, LAWMA shall calculate the Granada Winter

Return Flows as 10.7% of the farm headgate deliveries to the Granada Shares during the previous irrigation season (April 1 through October 31). LAWMA shall replace the Granada Winter Return Flows to the stream no later than the last day of May each year by delivering consumptive use stream credits attributable to the Granada Shares or the Lamar Canal Shares through one of the augmentation stations described in paragraph 16.1 above or an augmentation station added to this Decree under paragraph 16.3 above. The Court finds that such return flow replacement operations will prevent injury to Colorado water users and will prevent injury to Kansas's rights under the Compact.

- 16.8 LAWMA shall limit farm headgate deliveries to the Granada Shares to the volumes described in this paragraph 16.8 and its incorporated table. Farm headgate deliveries attributable to the Granada Shares from April 1 through October 31 will be limited to a maximum cumulative volume of 204,300 acre-feet in any 64-year period; to a maximum annual volume of 5,733 acre-feet; and to the following maximum and 20-year cumulative monthly volumes:

Month	April	May	June	July	August	September	October
Maximum volume (acre-feet)	996	975	1,294	1,307	1,074	855	728
20-year cumulative maximum (acre-feet)	10,203	12,306	15,187	16,528	12,696	11,139	8,726

- 16.9 For purposes of starting the calculation of the 20-year cumulative maximum monthly farm headgate delivery limits, for the 19 years prior to the first year in which the Granada Shares, or any portion thereof, are used pursuant to this Decree, LAWMA shall assume that the farm headgate deliveries were equal to the following monthly volumes per year: April, 484.6 acre-feet; May, 596.4 acre-feet; June, 731.2 acre-feet; July, 801.1 acre-feet; August, 611.6 acre-feet; September, 541.2 acre-feet; and October, 420.9 acre-feet.

- 16.10 LAWMA shall limit consumptive use stream depletion credits available under the Granada Shares to a maximum cumulative volume of 98,802 acre-feet in any 64-year period.

- 16.11 For purposes of starting the calculation of the 64-year cumulative farm headgate delivery limit and the 64-year consumptive use stream depletion credit limit, for the

63 years prior to the first year in which the Granada Shares, or any portion thereof, are used pursuant to this Decree, LAWMA shall assume that the farm headgate deliveries were equal to 3,144.0 acre-feet per year and that the consumptive use stream depletion credits were equal to 1,535.1 acre-feet per year.

16.12 If and when LAWMA reaches a volumetric limit imposed on the Granada Shares by this Decree and water is available to the Granada Shares pursuant to paragraph 16.13 below, diversions into the Lamar Canal will be limited as follows:

16.12.1 Diversions under the Lamar Canal Company’s direct flow water rights will be limited to the amounts listed in section 4 of the table below. Diversions under the Lamar Canal Company’s direct flow water rights only include diversions under Priority Nos. 3, 6½, 7½, and 13 decreed in the District 67 General Adjudication and do not include diversions of water released from the Lamar Canal Company’s Article II Water.

1. Priority No.	2. Decreed Flowrate (cfs)	3. Granada Shares’ CU Component (cfs)							4. Maximum Allowable Lamar Canal Diversion (cfs) (Col. 2 - Col. 3)						
		Apr	May	Jun	Jul	Aug	Sep	Oct	Apr	May	Jun	Jul	Aug	Sep	Oct
3	15.75	0.87	0.88	0.92	0.91	0.81	0.66	0.47	14.88	14.87	14.83	14.84	14.94	15.09	15.28
6.5	72.09	3.96	4.01	4.23	4.16	3.71	3.01	2.15	68.13	68.08	67.86	67.93	68.38	69.08	69.94
7.5	13.64	0.75	0.76	0.80	0.79	0.70	0.57	0.41	12.89	12.88	12.84	12.85	12.94	13.07	13.23
13	184.27	10.13	10.25	10.82	10.62	9.48	7.70	5.50	174.14	174.02	173.45	173.65	174.79	176.57	178.77
Total	285.75	15.70	15.90	16.77	16.48	14.71	11.94	8.52	270.05	269.85	268.98	269.27	271.04	273.81	277.23

If less direct flow water rights water is available at the Lamar Canal’s Arkansas River headgate in priority than the limits in section 4 of the table above, the Lamar Canal Company will be entitled to divert the entire amount available in priority.

16.12.2 If and when LAWMA reaches a volumetric limit imposed on the Granada Shares by this Decree and there is water available to the Granada Shares under paragraph 16.13 below, LAWMA shall continue to take delivery of the return flow component of the Granada Shares’ share of Lamar Canal diversions and return that component to the Arkansas River pursuant to paragraph 16.6 above. The continued delivery of the Granada Shares’ return flow component when LAWMA has reached a volumetric limit on the Granada Shares will not count against the volumetric limits on the Granada Shares. At any time the Lamar Canal Company is not diverting

water for delivery to shares other than the Granada Shares, LAWMA shall not require the Lamar Canal Company to call for or divert water solely to satisfy this term and condition; and in that circumstance, LAWMA will not be and is not to be deemed out of compliance with this term and condition.

16.12.3 If and when LAWMA reaches a volumetric limit imposed on the Granada Shares by this Decree and the Lamar Canal Company calls for water stored in The Lamar Canal Company's Article II account in John Martin Reservoir, LAWMA shall not take delivery of the consumptive use component of the Granada Shares' share of the amount of such water diverted into the Lamar Canal.

16.12.4 The terms and conditions included in this paragraph 16.12 are administrable using the Lamar Canal Company's existing diversion and measurement infrastructure.

16.13 The Lamar Canal historically has operated on a rotational basis from time to time, and such operations are expected to continue. For purposes of determining (a) when LAWMA must take delivery of the Granada Shares' under paragraph 16.5 above and (b) limitations on diversions into the Lamar Canal under paragraph 16.12 above or paragraph 16.14 below, water will be deemed to be available to the Lamar Canal Shares when the Lamar Canal is operating on a rotational basis and the Lamar Canal Shares are in rotation and will not be deemed to be available to the Granada Shares when the Lamar Canal is operating on a rotational basis and the Granada Shares are not in rotation.

16.14 If and when LAWMA simultaneously reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and a volumetric limit imposed on the Granada Shares by this Decree, and there is water available to the Lamar Canal Shares under paragraph 15.14 above and to the Granada Shares under paragraph 16.13 above, diversions into the Lamar Canal will be limited as follows:

16.14.1 Diversions under the Lamar Canal Company's direct flow water rights will be limited to the amounts listed in section 4 the table below. Diversions under the Lamar Canal Company's direct flow water rights only include diversions under Priority Nos. 3, 6½, 7½, and 13 decreed in the District 67 General Adjudication and do not include diversions of water released from the Lamar Canal Company's Article II Water.

1. Priority No.	2. Decreed Flowrate (cfs)	3. Combined Shares' CU Component (cfs)							4. Maximum Allowable Lamar Canal Diversion (cfs) (Col. 2 – Col. 3)						
		Apr	May	Jun	Jul	Aug	Sep	Oct	Apr	May	Jun	Jul	Aug	Sep	Oct
3	15.75	1.24	1.25	1.31	1.29	1.17	0.99	0.78	14.51	14.50	14.44	14.46	14.58	14.76	14.97
6.5	72.09	5.68	5.73	5.98	5.88	5.35	4.54	3.57	66.41	66.36	66.11	66.21	66.74	67.55	68.52
7.5	13.64	1.07	1.09	1.13	1.11	1.01	0.86	0.67	12.57	12.55	12.51	12.53	12.63	12.78	12.97
13	184.27	14.51	14.66	15.29	15.04	13.68	11.61	9.12	169.76	169.61	168.98	169.23	170.59	172.66	175.15
Total	285.75	22.51	22.73	23.71	23.32	21.22	18.00	14.14	263.24	263.02	262.04	262.43	264.53	267.75	271.61

If less direct flow water rights water is available at the Lamar Canal's Arkansas River headgate in priority than the limits in section 4 of the table above, the Lamar Canal Company will be entitled to divert the entire amount available in priority.

16.14.2 If and when LAWMA simultaneously reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and a volumetric limit imposed on the Granada Shares by this Decree and there is water available to the Lamar Canal Shares under paragraph 15.14 above and to the Granada Shares under paragraph 16.13 above, LAWMA shall continue to take delivery of the return flow component of the Lamar Canal Shares' and the Granada Shares' share of Lamar Canal diversions and return that component to the Arkansas River pursuant to paragraphs 15.6 and 16.6 above. The continued delivery of the Lamar Canal Shares' Granada Shares' return flow component when LAWMA has reached volumetric limits on the Lamar Canal Shares and the Granada Shares will not count against the volumetric limits on the Lamar Canal Shares and the Granada Shares. At any time the Lamar Canal Company is not diverting water for delivery to shares other than the Lamar Canal Shares and the Granada Shares, LAWMA shall not require the Lamar Canal Company to call for or divert water solely to satisfy this term and condition; and in that circumstance, LAWMA will not be and is not to be deemed out of compliance with this term and condition.

16.14.3 If and when LAMWA simultaneously reaches a volumetric limit imposed on the Lamar Canal Shares by this Decree and a volumetric limit imposed on the Granada Shares by this Decree and the Lamar Canal Company calls for water stored in The Lamar Canal Company's Article II account in John Martin Reservoir, LAWMA shall not take delivery of the consumptive use

component of the Lamar Canal Shares' share and the Granada Shares' share of the amount of such water diverted into the Lamar Canal.

16.14.4 The terms and conditions included in this paragraph 16.14 are administrable using the Lamar Canal Company's existing diversion and measurement infrastructure.

16.15 LAWMA's entitlement to use consumptive use credits available to the Granada Shares for the New Uses is subject to the actual dry-up of the Granada Historically Irrigated Land. LAWMA holds recorded dry-up covenants on each of the two tracts that make up the Granada Historically Irrigated Land. Those covenants run with the land and require the landowners to dry up the tracts in accordance with their specific terms, and LAWMA is therefore entitled to such dry-up. The Granada Historically Irrigated Land dried up in accordance with this paragraph 16.15 will not be irrigated with water diverted under the Granada Shares, or with any other source of water except as described in paragraph 20.2 below.

17. XY Canal terms and conditions to prevent injury: The following terms and conditions will prevent injury from LAWMA's use of the XY 2.0 cfs as changed herein:

17.1 The amount of water physically and legally available for diversion by the XY 2.0 cfs at the XY Canal historical river headgate location will be calculated and measured in-stream at the Granada Stream Gauge as described in LAWMA's memorandum dated September 22, 2017, attached as **Exhibit E** to this Decree. To make any change to this methodology, LAWMA shall serve written notice of the proposed change on the parties herein, the Division Engineer, and ARCA. Any party or ARCA may submit comments to the Division Engineer within 56 days of such notice. Following that comment period, the Division Engineer shall approve or disapprove the proposed change in methodology by written notice served on the parties to this case and ARCA.

17.2 To quantify the consumptive use stream credits that may be applied to the New Uses, LAWMA shall apply the following monthly consumptive use factors to the river headgate diversions available to the XY 2.0 cfs, as measured and calculated in accordance with paragraph 17.1 above. LAWMA shall quantify Historical Return Flows as the portion of the river headgate diversions that is not quantified as consumptive use stream credits.

April	May	June	July	Aug.	Sept.	Oct.
72.6%	74.5%	75.8%	73.0%	74.0%	67.1%	59.2%

- 17.3 The consumptive use stream credits attributable to the XY 2.0 cfs will be available to LAWMA at the XY Canal historical river headgate location, and will be left undiverted in the Arkansas River for the New Uses.
- 17.4 LAWMA may take and use the consumptive use stream credits derived from the XY 2.0 cfs between April 1 and October 31, when the XY Canal water right is in priority.
- 17.5 To prevent injury to vested water rights, during the irrigation season (April 1 through October 31) LAWMA shall maintain the Historical Return Flows for the XY 2.0 cfs by limiting the consumptive use stream credits derived from the XY 2.0 cfs as provided in paragraph 17.2 of this Decree, and therefore leaving the Historical Return Flows undiverted in the Arkansas River.
- 17.6 The Historical Return Flows associated with the XY 2.0 cfs accrued to the Arkansas River above the headgate of the Sisson-Stubbs Ditch. To prevent injury to vested water rights, during the non-irrigation season (November 1 through March 31) LAWMA shall maintain return flows for the XY 2.0 cfs as follows:
- 17.6.1 LAWMA shall not divert the XY 2.0 cfs from November 1 through March 31. LAWMA shall forgo any diversions and consumptive use stream credits for the XY 2.0 cfs and leave the Historical Return Flows undiverted in the Arkansas River.
- 17.6.2 LAWMA's engineers have determined that because LAWMA will not be taking delivery of water available to the XY 2.0 cfs in the non-irrigation season, the operation of the condition set forth in paragraph 17.6.1 above, without more, would result in under-replacement of historical non-irrigation season return flows for the XY 2.0 cfs ("XY Winter Return Flows") in the average annual amount of 7.4 acre-feet. The XY Winter Return Flows are a component of the Historical Return Flows. To prevent injury to vested water rights and to Kansas's rights under the Compact, LAWMA shall take the following additional action to replace non-irrigation season return flows: At the beginning of each irrigation season, LAWMA shall calculate the XY Winter Return Flows as 5.5% of the river headgate diversions available to the XY 2.0 cfs during the previous irrigation season (April 1 through October 31). LAWMA shall replace the XY Winter Return Flows to the stream no later than the last day of May each year by forgoing use of consumptive use credits available to the XY 2.0 cfs. The Court finds that such return flow replacement operations will prevent injury to Colorado water users and will prevent injury to Kansas's rights under the Compact.

- 17.7 LAWMA shall limit river headgate diversions for the XY 2.0 cfs, as those river headgate diversions will be determined and measured as set forth in paragraph 17.1, to the volumes described in this paragraph 17.7 and its incorporated table. River headgate diversions attributable to the XY 2.0 cfs from April 1 through October 31 will be limited to a maximum cumulative volume of 5,995 acre-feet in any 44-year period; to a maximum annual volume of 329 acre-feet; and to the following maximum monthly volumes:

Month	April	May	June	July	August	September	October
Maximum volume (acre-feet)	50	63	77	71	70	55	48

- 17.8 LAWMA shall limit consumptive use stream depletion credits available under the to the XY 2.0 cfs to a maximum cumulative volume of 3,946 acre-feet in any 44-year period.
- 17.9 For purposes of starting the calculation of the 44-year cumulative river headgate diversion limit and the 44-year consumptive use stream depletion credit limit, for the 43 years prior to the first year in which the XY 2.0 cfs, or any portion thereof, is used pursuant to this Decree, LAWMA shall assume that the river headgate diversions were equal to 131.6 acre-feet per year and that the consumptive use stream depletion credits were equal to 86.8 acre-feet per year.
- 17.10 LAWMA's entitlement to use consumptive use credits available to the XY 2.0 cfs for the New Uses is subject to the actual dry-up of the XY Historically Irrigated Land. LAWMA holds recorded dry-up covenants on each of the two tracts that make up the XY Historically Irrigated Land. Those covenants run with the land and require the landowners to dry up the tracts in accordance with their specific terms, and LAWMA is therefore entitled to such dry-up. The XY Historically Irrigated Land dried up in accordance with this paragraph 17.10 will not be irrigated with water diverted under the XY 2.0 cfs, or with any other source of water except as described in paragraph 20.2 below.
18. Projection of the 15CW3067 Water Rights: LAWMA shall project the annual consumptive use credit yield of the 15CW3067 Water Rights as part of the annual projection required by paragraph 47.E of the 02CW181 Decree, and shall project such yield as no more than the average monthly historical consumptive use amounts of the 15CW3067 Water Rights.
19. Establishment and Maintenance of Groundcover or Dry-Land Farming Practices on the Historically Irrigated Lands: The provisions of paragraph 19 of this Decree are designed to accomplish the revegetation, noxious weed management, and erosion control of the

Historically Irrigated Lands as required by section 37-92-305(4.5)(a), C.R.S. As of the date of entry of this Decree, the Historically Irrigated Lands have been permanently removed from irrigation with the 15CW3067 Water Rights and have been dried up or are being re-irrigated with the permissible sources of water described in paragraph 20.2 below. Attached **Exhibits A-2, B-2, and C-2** depict, respectively, the individual parcels of the Lamar Canal Historically Irrigated Land, the Granada Historically Irrigated Land, and the XY Historically Irrigated Land for which LAWMA will claim dry-up credit (“Dry-Up Parcels”). Attached **Exhibits A-3, B-3, and C-3** identify, as of the date of entry of this Decree, the status of the Dry-Up Parcels within the following categories (“Revegetation Categories”): (i) irrigated with a source of water described in paragraph 20.2 below (“Irrigated Farming”); (ii) developed for non-agricultural use (“Developed Non-Ag Use”); (iii) established and maintained in native grasses or such other self-sustaining (under the conditions prevailing on the land) suitable dry-land cover with weeds adequately controlled (“Established Groundcover”); (iv) established and maintained in dry-land farming practices with weeds adequately controlled (Established Dry-Land Farming”); or (v) not Irrigated Farming, Developed Non-Ag Use, Established Groundcover, or Established Dry-Land Farming (“Not Established”). Attached **Exhibit F** specifies the criteria a Dry-Up Parcel must meet to be classified within each Revegetation Category.

- 19.1 Those Dry-Up Parcels that are identified on **Exhibits A-3, B-3, and C-3** as Developed Non-Ag Use, Established Groundcover, or Established Dry-Land Farming are referred to collectively in this Decree as the “Phase I Land.” The Phase I Land is not subject to the Court’s retained jurisdiction under this Decree or to any further requirements under this paragraph 19.
- 19.2 Those Dry-Up Parcels that are identified on **Exhibits A-3, B-3, and C-3** as Irrigated Farming or Not Established are referred to collectively in this Decree as the “Phase II Land.” Subject to paragraph 20.2 below, and within the Compliance Period defined in paragraph 22 below, LAWMA shall ensure that each parcel of Phase II Land is established and maintained as Established Groundcover, Established Dry-Land Farming, or Developed Non-Ag Use, all with weeds adequately controlled, in accordance with the criteria specified in **Exhibit F** (“Revegetated”). When a parcel of Phase II Land has been accepted as Revegetated under the process described in paragraph 19.3 below, the parcel will be classified as “Confirmed Revegetated” in future Annual Revegetation Status Reports filed under paragraph 21 below.
- 19.3 When a parcel or multiple parcels of Phase II Land has/have been Revegetated as required by paragraph 19.2 above, LAWMA shall file a report with the Court demonstrating that the parcel or parcels has/have been Revegetated (“Revegetated Parcel(s) Report”). Each Revegetated Parcel(s) Report must be prepared by a

person accepted by the Court as an expert on revegetation pursuant to C.R.E. 702. If any party to this case disagrees with the conclusions documented in a Revegetated Parcel(s) Report, such party may submit objections for the Court's consideration within 45 days after service of such report. The Court will retain jurisdiction to resolve disputes regarding any Revegetated Parcel(s) Report. If no objections are filed within the 45-day period, or if the Court confirms the conclusions documented in a disputed Revegetated Parcel(s) Report, the report will be deemed accepted and all parties will be bound by the conclusions documented in the report. Once a Revegetated Parcel(s) Report has been accepted, LAWMA will have met the requirements of paragraph 19.2 above with respect to the parcel(s) described in that report and will have no further obligations with respect to revegetation of such parcel(s). LAWMA may file Revegetated Parcel(s) Reports as part of or separate from an Annual Revegetation Status Report required by paragraph 21 below.

20. Development for non-agricultural uses and irrigation of the Historically Irrigated Lands:

20.1 Consistent with paragraph 19 above, this Decree is not intended to prevent the owner of any particular parcel(s) of the Phase II Land from developing that land for other uses. The requirements of paragraph 19.2 above do not and will not apply to any Revegetation Parcel if and when such parcel is developed for non-agricultural uses in accordance with the criteria specified for Developed Non-Ag Use in **Exhibit F**.

20.2 Consistent with paragraph 19 above, this Decree also is not intended to prevent the owner of any particular parcel(s) of the Phase II Land from re-irrigating that land with one or more of the following sources, which do not include water available to the 15CW3067 Water Rights: (i) surface water from a source authorized by a future Water Court decree or by a final and unappealable substitute water supply plan approved by the State Engineer; (ii) ground water diverted pursuant to a Water Court-approved plan for augmentation or a substitute supply plan approved by the State Engineer; (iii) ground water diverted from a permitted exempt well; (iv) water supplied by a municipal or quasi-municipal entity, provided that use of such water for re-irrigation of the Phase-II land is consistent with all relevant Water Court decrees or substitute water supply plan approvals; or (v) water available pursuant to a statutorily authorized water banking arrangement (collectively, "Re-Irrigation Sources").

20.2.1 The requirements of paragraph 19.2 above do not and will not apply to any parcel of the Phase II Land during the period such parcel is being irrigated with one or more of the Re-Irrigation Sources ("Re-Irrigated Phase II

Parcel”). When irrigation of a Re-Irrigation Phase II Parcel has ceased, LAWMA shall file notice with the Court, with service on the parties herein, that the requirements of paragraph 19.2 have been triggered for that parcel.

20.2.2 Within 5 years of filing notice of the cessation of irrigation of any Re-Irrigated Phase II Parcel, as described in paragraph 20.2.1 above, LAWMA shall ensure that such parcel is Revegetated in accordance with paragraph 19.2 above. When a Re-Irrigated Phase II Parcel has been Revegetated, LAWMA shall file a Revegetated Parcel(s) Report as described in paragraph 19.3 above.

21. Annual Revegetation Status Report: Until each parcel of Phase II Land identified as Not Established on Exhibits A-3, B-3, and C-3 has been Revegetated, as confirmed by an accepted Revegetated Parcel(s) Report, on or before December 1 of each year, LAWMA shall produce and serve upon the objectors in this case an Annual Revegetation Status Report containing the information specified in this paragraph and Exhibit F. The Annual Revegetation Status Report must be prepared by a person accepted by the Court as an expert on revegetation pursuant to C.R.E. 702, and must classify each parcel of the Phase II Land as Irrigated Farming, Developed Non-Ag Use, Established Groundcover, Established Dry-Land Farming, Not Established, or Confirmed Revegetated based on the revegetation expert’s inspection of each parcel during September, October, or November of that year. The Annual Revegetation Status Report may classify as Confirmed Revegetated only those parcels that are the subject of an accepted Revegetated Parcel(s) Report.
22. Compliance Period for Phase II Land: For parcels of Phase II Land classified as Not Established on Exhibits A-3, B-3, and C-3, LAWMA will have a period of ten years from the date of entry of this Decree (“Compliance Period”) to ensure that such parcels are Revegetated in accordance with paragraph 19.2 above.
- 22.1 The Water Court may extend the Compliance Period, upon petition by LAWMA under retained jurisdiction, for all or a portion of the Phase II Land upon a showing by LAWMA that its efforts to establish and maintain Established Groundcover or Established Dry-land Farming have been hindered due to circumstances beyond LAWMA’s control, including fire, hail storms, wind storms, tornadoes, flooding, and freezes after May 15th and before September 15th of any year. The Water Court shall extend the Compliance Period, upon petition by LAWMA under retained jurisdiction, for one year for each year the amount of precipitation measured at the Lamar precipitation station falls below 80% of the March through August average of 10.4 inches (1950-2004 average).

22.2 Subject to the terms and conditions of paragraph 20.2 above, if the parcels of Phase II Land classified as Not Established on Exhibits A-3, B-3, and C-3 are not Revegetated by the end of the Compliance Period (as it may be extended by the Water Court under retained jurisdiction), then LAWMA shall calculate as described in paragraphs 22.2.1 and 22.2.2 below the amount of water available to the 15CW3067 Water Rights as changed herein. All years referred to in paragraphs 21.2.1 and 21.2.2 below (e.g., “Year 1,” “Year 2”) are the number of years following the end of the Compliance Period. LAWMA shall demonstrate through its accounting that it has not taken credit for consumptive use credit, if any, that LAWMA is required to forgo under this paragraph.

22.2.1 Lamar Canal Shares and Granada Shares:

22.2.1.1 Year 1: Multiply the farm headgate deliveries available to the Lamar Canal Shares and the Granada Shares under each of the Lamar Canal priorities by the greater of either (a) the number of acres of the Phase I Land under the Lamar Canal and the Granada Lateral plus the number of acres of the Phase II Land under the Lamar Canal and the Granada Lateral classified as Established Groundcover, Established Dry-Land Farming, and/or Developed Ag Use, or Confirmed Revegetated in the most recent Annual Revegetation Status Report, plus the number of acres of the Phase II Land under the Lamar Canal and the Granada Lateral that make up Re-Irrigated Phase II Parcels, divided by 1,611.4 acres (“Percentage of Lamar-Granada Completion”); or (b) 80%. In no event may LAWMA’s total annual farm headgate deliveries associated with the Lamar Canal Shares and the Granada Shares exceed the greater of 80% or the Percentage of Lamar-Granada Completion, multiplied by LAWMA’s annual maximum of farm headgate deliveries to the Lamar Canal Shares (as described in paragraph 15.8 above) and the Granada Shares (as described in paragraph 16.8 above) (the “Combined Lamar-Granada Annual Volumetric Limit”)

22.2.1.2 Year 2: Multiply the farm headgate deliveries available to the Lamar Canal Shares and the Granada Shares under each of the Lamar Canal priorities by the greater of either (a) the Percentage of Lamar-Granada Completion; or (b) 60%. In no event may LAWMA’s total annual farm headgate deliveries associated with the Lamar Canal Shares and the Granada Shares exceed the greater of 60% or the Percentage of Lamar-Granada Completion

multiplied by the Combined Lamar-Granada Annual Volumetric Limit.

22.2.1.3 Year 3: Multiply the farm headgate deliveries available to the Lamar Canal Shares and the Granada Shares under each of the Lamar Canal priorities by the greater of either (a) the Percentage of Lamar-Granada Completion; or (b) 40%. In no event may LAWMA's total annual farm headgate deliveries associated with the Lamar Canal Shares and the Granada Shares exceed the greater of 40% or the Percentage of Lamar-Granada Completion multiplied by the Combined Lamar-Granada Annual Volumetric Limit.

22.2.1.4 Year 4: Multiply the farm headgate deliveries available to the Lamar Canal Shares and the Granada Shares under each of the Lamar Canal priorities by the greater of either (a) the Percentage of Lamar-Granada Completion; or (b) 20%. In no event may LAWMA's total annual farm headgate deliveries associated with the Lamar Canal Shares and the Granada Shares exceed the greater of 20% or the Percentage of Lamar-Granada Completion multiplied by the Combined Lamar-Granada Annual Volumetric Limit.

22.2.1.5 Year 5 and on: Multiply the farm headgate deliveries available to the Lamar Canal Shares and the Granada Shares under each of the Lamar Canal priorities by the greater of either (a) the Percentage of Lamar-Granada Completion; or (b) 0%. In no event may LAWMA's total annual farm headgate deliveries associated with the Lamar Canal Shares and the Granada Shares exceed the Percentage of Lamar-Granada Completion multiplied by the Combined Lamar-Granada Annual Volumetric Limit.

22.2.2 XY 2.0 cfs:

22.2.2.1 Year 1: Multiply 2.0 cfs by the greater of either (a) the number of acres of the Phase I Land under the XY Canal plus the number of acres of the Phase II Land under the XY Canal classified as Established Groundcover, Established Dry-Land Farming, Developed Ag Use, and or Confirmed Revegetated in the most recent Annual Revegetation Status Report, plus the number of acres of the Phase II Land under the XY Canal that make up Re-Irrigated Phase II Parcels, divided by 92.8 acres (the "Percentage

- of XY Completion”) or (b) 80%. In no event may LAWMA’s total annual river headgate diversions associated with the XY 2.0 cfs exceed the greater of 80% or the Percentage of XY Completion multiplied by LAWMA’s annual maximum of river headgate diversions under the XY 2.0 cfs (as described in paragraph 17.7 above) (“XY Annual Volumetric Limit”)
- 22.2.2.2 Year 2: Multiply 2.0 cfs by the greater of either (a) the Percentage of XY Completion; or (b) 60%. In no event may LAWMA’s total annual river headgate diversions associated with the XY 2.0 cfs exceed the greater of 60% or the Percentage of XY Completion multiplied by the XY Annual Volumetric Limit.
- 22.2.2.3 Year 3: Multiply 2.0 cfs by the greater of either (a) the Percentage of XY Completion; or (b) 40%. In no event may LAWMA’s total annual river headgate diversions associated with the XY 2.0 cfs exceed the greater of 40% or the Percentage of XY Completion multiplied by the XY Annual Volumetric Limit.
- 22.2.2.4 Year 4: Multiply 2.0 cfs by the greater of either (a) the Percentage of XY Completion; or (b) 20%. In no event may LAWMA’s total annual river headgate diversions associated with the XY 2.0 cfs exceed the greater of 20% or the Percentage of XY Completion multiplied by the XY Annual Volumetric Limit.
- 22.2.2.5 Year 5: Multiply 2.0 cfs by the greater of either (a) the Percentage of XY Completion; or (b) 0%. In no event may LAWMA’s total annual river headgate diversions associated with the XY 2.0 cfs exceed the greater of the Percentage of XY Completion multiplied by the XY Annual Volumetric Limit.
- 22.3 The portion of the water rights for which LAWMA must forgo taking consumptive use stream credits under paragraphs 21.2.1 and 21.2.2 above (“Forgone Credits”) may be used by LAWMA for the New Uses, by means of augmentation and replacement, but only for purposes of establishing and maintaining Established Groundcover on all or any portion of the Phase II Land. In addition, within twenty years of the date of entry of this Decree, such Forgone Credits may be leased by LAWMA downstream of John Martin Reservoir and the funds used to establish and maintain Established Groundcover on all or any portion of the Phase II Land. If LAWMA leases the Forgone Credits, it shall hold the revenues from such lease in trust for satisfying LAWMA’s obligations under paragraph 19.2 of this Decree. LAWMA shall provide the Court and counsel of record for the parties hereto with

an annual accounting of the proceeds from any such lease. Any use or lease of such Forgone Credits pursuant to this paragraph 22.3 must be in accordance with the terms and conditions of this Decree and/or subsequent decrees of the Water Court, or as approved by the State Engineer.

23. Alteration of provisions regarding replacement of Granada Winter Return Flows and XY Winter Return Flows: The operations described in paragraphs 15, 16, and 17 above will ensure that the Historical Return Flows are replaced in location and amount on an annual basis, but will result in the Granada Winter Return Flows and the XY Winter Return Flows being replaced during the irrigation season rather than during the non-irrigation season. The evidence shows that replacing the Historical Return Flows in this pattern will not injure any Colorado water rights and will not violate the Compact. If, however, it is determined that the Compact requires return flows owed to the Stateline under this Decree or the 02CW181 Decree to be delivered in a manner that matches historical return flows in timing, LAWMA will invoke the Court's retained jurisdiction under paragraph 48.5 below to amend this Decree to require replacement of the Historical Return Flows owed to the Stateline in a manner that matches historical Stateline return flows in timing. Such a determination must take the form of one of the following: (i) an agreement between Colorado and Kansas that is approved by the Colorado State Engineer, the Kansas Chief Engineer, and ARCA; or (ii) a final determination under the dispute resolution provisions of the decree in Kansas v. Colorado, No. 105, Original.
24. Agreement "B": The water users of former Water District 67 and the water users of former Water Districts 14 and 17 have entered into an agreement known as Agreement "B" that provides a method for determining when a call from Water District 67 will be enforced above John Martin Reservoir. So long as Agreement "B" remains in force and effect, the change of the 15CW3067 Water Rights sought herein will be administered in a manner that is consistent with Agreement "B." Further, so long as Agreement "B" remains in force and effect, "summer stored water," as defined in Agreement "B," may be transferred into the Offset Account in John Martin Reservoir or released for the New Uses from the XY Graham Article II Storage Account in John Martin Reservoir at any rate. LAWMA, however, may not place a call against water rights above John Martin Reservoir for the XY 2.0 cfs until all of the "summer stored water" in the XY Graham Article II Storage Account has been paper-evacuated in accordance with the following accounting procedure: LAWMA shall account for paper-evacuation of "summer stored water" from the XY Graham Article II Storage Account at a rate of 20.0 acre-feet per day from April 1 through October 31 of each year until all of said water has been accounted for as being paper evacuated from the XY Graham Article II Storage Account. This accounting will be conducted in accordance with procedures of the Division Engineer established for the regular John Martin Reservoir accounting, taking into account inflows, releases, and spills. LAWMA shall provide this accounting to the Division Engineer with a copy to the

Arkansas Valley Ditch Association between five and ten days (calculated to exclude weekends and holidays pursuant to C.R.C.P. 6) prior to the time the accounting shows that the XY Graham Article II Storage Account will be paper evacuated. There are no flow rate limitations on the release of “summer stored water” from the Lamar Canal Article II Storage Account.

25. Use of the 15CW3067 Water Rights in LAWMA’s Augmentation Plan, Rule 14 Plans, and Rule 10 Plans, and under future change decrees: The terms and conditions in this Decree will apply to and govern the use of the 15CW3067 Water Rights for the New Uses in LAWMA’s Augmentation Plan, Rule 14 Plans, and Rule 10 Plans.
26. Requests to use the 15CW3067 Water Rights in substitute water supply plans: In any request to use the 15CW3067 Water Rights as a replacement supply in a substitute water supply plan pursuant to § 37-92-308, C.R.S., LAWMA shall propose as a term and condition of approval that such use be consistent with the terms and conditions in this Decree.
27. No injury or violation of the Arkansas River Compact: Use of the 15CW3067 Water Rights for the New Uses in compliance with the terms and conditions of this Decree, including both direct use and use after storage in the West Farm Gravel Pit described in paragraph 14.3.1 above, and the addition of the 15CW3067 Water Rights as changed herein to the LAWMA Augmentation Plan will not materially injure the water rights of any owner or user of any vested water right or decreed conditional water right, and will not violate or cause a violation of the Compact.
28. Approval of change of water rights: The change of water rights described in paragraph 14 above is in accordance with law and should be granted subject to the terms of this Decree.
29. Approval of addition of changed water rights to Augmentation Plan: The addition of the 15CW3067 Water Rights as changed herein to the LAWMA Augmentation Plan is in accordance with paragraph 41.A of the 02CW181 Decree and in accordance with law, and should be approved subject to the terms of this Decree and the 02CW181 Decree.

CONCLUSIONS OF LAW

30. Incorporation: The foregoing Findings of Fact are incorporated herein as part of these Conclusions of Law.
31. Consistent with law: The application is contemplated and authorized by law. C.R.S. § 37-92-302(1)(a).

32. Notice and jurisdiction: The Water Court for Water Division No. 2 has jurisdiction over the subject matter of these proceedings and over all persons, property, and water rights that may be affected hereby, whether or not those persons have chosen to appear. The Application in this matter and the resume publication of the Application placed such persons on notice of the relief requested by the Application and granted by this Decree.
33. Compliance with Arkansas River Compact: The Application seeks approval of a change of the 15CW3067 Water Rights so that, among other things, they may be used to replace stream depletions to stateline flows. This Court has jurisdiction to determine the beneficial uses that may be made of Colorado water rights, including whether the 15CW3067 Water Rights and associated Article II Water can be used to replace depletions to stateline flows and can be used for augmentation and replacement purposes and other beneficial uses specified in this Decree. The Court concludes that the 15CW3067 Water Rights and associated Article II Water may lawfully be used to replace depletions to stateline flows under the Compact and may lawfully be used for augmentation and replacement purposes and the other beneficial uses described in this Decree. The Court has no jurisdiction over the State of Kansas in determining that this change of water rights will not violate the Compact. However, the Court is required to determine the effect of this change of water rights on compliance with the Compact. *SE Colo. Water Conservancy Dist. v. Fort Lyon Canal Co.*, 720 P.2d 133, 150 (Colo. 1986). The Court has considered the Compact and concludes that, if implemented in accordance with the terms and conditions imposed by this Decree, this change of water rights will not violate the Compact.
34. Change of water rights: The change of water rights requested by LAWMA is permissible and contemplated by law, and satisfies the requirements of § 37-92-101 – § 37-92-602, C.R.S. If implemented subject to the terms and conditions imposed by this Decree, this change will not cause injury to the owner or user of any vested water right or decreed conditional water right.
35. Addition of changed water rights to Augmentation Plan: The addition of the 15CW3067 Water Rights as changed herein to the LAWMA Augmentation Plan is permissible and contemplated by law, and satisfies the requirements of § 37-92-101 – § 37-92-602, C.R.S. If implemented subject to the terms and conditions imposed by this Decree and the 02CW181 Decree, such addition will not cause injury to the owner or user of any vested water right or decreed conditional water right.
36. Retained jurisdiction limitations: Pursuant to § 37-92-304(6), C.R.S., the Court is required to retain jurisdiction over the change of water rights decreed herein for some period following entry of this Decree, such period to be determined by the Court, to reconsider the question of injury to the vested rights of others as a result of the change of water rights. The Court will retain jurisdiction as more particularly described in paragraphs 47 and 48

below on the specific matters described therein, as well as on the question of injury to the vested rights of others. For all other purposes, this judgment and decree is final.

37. Retention of dominion: Dominion over water depends on a water user's intent and ability to quantify and use a certain quantity of water which may be distinguished by volume from other water in a stream. *Pub. Serv. Co. v. Willows Water Dist.*, 856 P.2d 829, 833 (Colo. 1993). LAWMA has the intent and ability to maintain dominion over, and to use for the purposes adjudicated by this Decree, the consumptive use stream credits derived from the 15CW3067 Water Rights until they are used for the New Uses pursuant to the terms of this Decree.
38. Administrability: The change of the 15CW3067 Water Rights and addition of the 15CW3067 Water Rights as changed herein to LAWMA's Augmentation Plan are administrable by the officials of the State of Colorado, so long as operated in accordance with the terms of this Decree.
39. Requirements, standards and burden of proof: LAWMA has complied with all requirements and met all standards and burdens of proof, including but not limited to §§ 37-92-302, 37-92-304 and 37-92-305, C.R.S., and is therefore entitled to a decree confirming and approving the claims in the Application.

DECREE OF THE WATER COURT

40. Incorporation: The foregoing Findings of Fact and Conclusions of Law, together with all attached Exhibits, are fully incorporated into this Decree.
41. Change of water rights: The application for change of water rights described herein is hereby approved, adjudicated, and decreed.
42. Addition of changed water rights to decreed augmentation plan: The application for addition of the 15CW3067 Water Rights to the LAWMA Augmentation Plan as described herein is hereby approved, adjudicated, and decreed.
43. No injury and no Compact violation: The terms and conditions provided for in this Decree are adequate to ensure that no injury to any water users will occur from the operation of the change of water rights or addition of the 15CW3067 Water Rights to the LAWMA Augmentation Plan, and are adequate to ensure that the Compact will not be violated as a result of such operations.
44. Accounting: LAWMA has demonstrated an appropriate method for accounting for diversions associated with the operation of the change of water rights. The initial accounting form is attached as **Exhibit G**. LAWMA shall integrate its accounting under

this Decree with the accounting for the 02CW181 Decree, and shall include in such accounting, at minimum, the following data, tracked on a daily basis: (i) measured diversion at the Lamar Canal headgate, (ii) measured diversion at the alternate point of diversion approved by the W-1836 Decree, (iii) measured diversion of Lamar Canal Company's direct flow water rights, (iv) measured diversion of Lamar Canal Company's Article II Water from John Martin Reservoir, (v) number of Lamar Canal Shares and number of Granada Shares delivered to the West Farm Gravel Pit and the measured delivery of direct flow sources (excluding Lamar Article II Water unless restorage of Lamar Article II Water is approved under paragraphs 14.3.3 and 48.6 of this Decree) to those shares, (vi) the amount and location of Historical Return Flows owed based on deliveries of Lamar Canal Shares and Granada Shares to the West Farm Gravel Pit, (vii) the amount and location of measured deliveries to replace the Historical Return Flows owed based on deliveries of Lamar Canal Shares and Granada Shares to the West Farm Gravel Pit pursuant to paragraph 14.3.2 of this Decree, (viii) number of Lamar Canal Shares and number of Granada Irrigation Company shares delivered at each augmentation station, (ix) the portion of the measured delivery at each augmentation station that falls into each of the following categories: the decree in Case No. 02CW181, this Decree, LAWMA's Rule 14 Plan, LAWMA's Rule 10 Compact Compliance Plan, any other Rule 14 Plan, any other Rule 10 Plan and any other deliveries, (x) the total amount of water physically and legally available for diversion by the XY Canal quantified at the Granada Stream Gauge (xi) the amount of water physically and legally available for diversion by the XY 2.0 cfs, (xii) consumptive use credits delivered to the Lamar Canal Shares and the Granada Shares at each augmentation station and the consumptive use credits for the XY 2.0 cfs; (xiii) cumulative total of farm headgate deliveries to the Lamar Canal Shares, tracked alongside the volumetric limits provided in paragraph 15 of this Decree; (xiv) cumulative total of farm headgate deliveries to the Granada Shares, tracked alongside the volumetric limits provided in paragraph 16 of this Decree; (xv) cumulative total of river headgate deliveries to the XY 2.0 cfs, tracked alongside the volumetric limits provided in paragraph 17 of this Decree; (xvi) amounts of transportation losses assessed in accordance with paragraph 45; (xvii) Arkansas River call by priority and location; (xviii) the amount of Granada Winter Return Flows and the amount of XY Winter Return Flows that must be replaced before May 31; and (xix) Granada Winter Return Flows and XY Winter Return Flows replacement deliveries by location and water rights source.

LAWMA shall file with the Division Engineer, on a monthly basis, all accounting records required by this Decree. LAWMA may modify its accounting forms at the reasonable request of or as approved by the Division Engineer provided that LAWMA shall provide written notice to opposers of the proposed amendments to the accounting form no less than 35 days before they are approved by the Division Engineer. The accounting forms shall always include, at minimum, the information required by this Decree and included on **Exhibit G**.

45. Transportation losses: When water available under the 15CW3067 Water Rights is transported in the Arkansas River or its tributaries for any of the purposes adjudicated by this Decree, the Division Engineer or his designated representative, when determining the amount of water available for use by LAWMA, shall assess reasonable losses resulting from such transportation in the same manner as for other water users using the stream for carriage.
46. No precedent: There was no trial in this matter and no issues were litigated. The Findings of Fact, Conclusions of Law, and Decree of the Water Court were completed as the result of substantial discussions, negotiations and compromises by, between and among LAWMA and the several objectors pertaining to all parts of the findings, conclusions, and decree and are based on the specific characteristics of the irrigation ditches and water rights that are the subject of this Decree, including the historical use and operation of those ditches and water rights. The parties hereto specifically understand and agree, and the Court finds and concludes the following:
- 46.1 The acquiescence of the parties to a stipulated decree under the specific factual and legal circumstances of this contested matter and upon the numerous and interrelated compromises reached by the parties shall never give rise to any argument, claim, defense or theory of acquiescence, waiver, bar, merger, *stare decisis*, *res judicata*, estoppel, laches, or otherwise, nor to any engineering, administrative or judicial practice or precedent, by or against any of the parties hereto in any other matter, case or dispute, nor shall testimony concerning such acquiescence of any party to a stipulated decree herein be allowed in any other matter, case or dispute.
- 46.2 This Findings of Fact, Conclusions of Law, and Decree of the Water Court shall not have the effect of precedent or preclusion on any factual or legal issue in any other matter.
- 46.3 The parties hereto reserve the right to propose or to challenge any legal or factual position in any other change of water rights, plan for augmentation or other matter filed in this or any other court without limitation by these findings, conclusions, and decree.
47. General retained jurisdiction: In accordance with § 37-92-304(6), C.R.S., the portions of this Decree authorizing the change of water rights will be subject to reconsideration by the Water Judge on the question of injury to vested rights of others that may result from operation of the change of water rights, including but not limited to injury resulting from changes in historical patterns of calls or return flows or from ineffective dry-up of the Historically Irrigated Lands, for a period of fifteen years from the date of this Decree. However, all findings of fact, conclusions of law and rulings of this Court quantifying the historical consumptive use of the 15CW3067 Water Rights changed by this Decree are

final and not subject to reconsideration. *Farmers Reservoir & Irrigation Co. v. Consol. Mut. Water Co.*, 33 P.3d 799, 805 (Colo. 2001) (“[H]istoric consumptive use determinations are not susceptible to redetermination under the retained jurisdiction provision.”). Pursuant to § 37-92-304(6), C.R.S., the five-year period of retained jurisdiction may be extended upon further decision by the Water Judge that the nonoccurrence of injury has not been conclusively established.

48. Perpetual retained jurisdiction: In addition to the general retained jurisdiction described in paragraph 47 above, the Court specifically retains perpetual jurisdiction over the following matters:
- 48.1 To review any disputed proposed addition of an augmentation station pursuant to paragraph 15.3 above.
 - 48.2 To consider any petition to extend the Compliance Period filed pursuant to paragraph 22.1 above.
 - 48.3 To resolve any timely-filed objection to a Revegetated Parcel(s) Report pursuant to paragraph 19.3 above.
 - 48.4 To review the modification, termination or expiration of the 1980 Operating Plan, the Offset Account Resolution, or the Offset Account Crediting Agreement, and the effect the modification, termination or expiration may have on the change of water rights decreed herein.
 - 48.5 To review any changes in the H-I Model, changes to the methodology for determining Compact compliance under the Arkansas River Use Rules, changes in the methodology for determining Compact compliance pursuant to agreements between Colorado and Kansas that are approved by the Colorado State Engineer, the Kansas Chief Engineer, and ARCA, changes in the methodology for determining Compact compliance pursuant to final determinations under the dispute resolution provisions of the decree in Kansas v. Colorado, No. 105, Original or otherwise, or changes that may be ordered by the United States Supreme Court pursuant to its retained jurisdiction in Kansas v. Colorado, or in further proceedings in Kansas v. Colorado or any other original jurisdiction action involving the Compact to protect the rights of the State of Kansas under the Compact, which changes lead any party herein to seek modification of this Decree with respect to such change. If the conflict between such change and this Decree is indisputable, LAWMA shall voluntarily file a motion to amend this Decree as required by the change. Otherwise, the party seeking such modification shall have the burden of establishing a *prima facie* case that such amendment is required by the change or is otherwise necessary to prevent injury to the vested rights of Colorado water users

or to prevent a Compact violation. Such jurisdiction must be invoked within three years of the time of the change described in this paragraph 48.5. The period for invoking such jurisdiction may be extended beyond three years upon motion by any party before the close of the three-year period, and upon conclusion by the Court that non-injury or Compact compliance has not been conclusively established.


- 48.6 Consistent with paragraph 14.3.3 above, to consider whether ARCA's action with respect to a request by LAWMA to re-store, in the West Farm Gravel Pit, water that was stored in John Martin Reservoir in the Lamar Canal Company's Article II Account requires any further or different terms and conditions in this Decree with respect to such re-storage.
49. Procedure for general retained jurisdiction: Any party seeking to invoke the retained jurisdiction of the Court pursuant to paragraph 47 shall file a petition with the Court under the caption and case number of this Decree and shall serve a copy of the petition on the counsel of record for all parties to the case and ARCA. The party who files such a petition must plead sufficient facts which, if proved, meet its burden of going forward to show that injury has occurred or is likely to occur based on operational experience involving the change of water rights decreed herein. If the petition alleges such facts, the Court will conduct additional proceedings. In such additional proceedings, the petitioner has the burden of going forward with sufficient evidence that injury has occurred or is likely to occur because the existing decree is inadequate to preclude or remedy injury. If the petitioner meets its burden of going forward, the burden of establishing non-injury and the existence of adequate provisions in the existing decree to preclude and remedy injury rests upon LAWMA. Following presentation of the parties' evidence, the Court will make findings of fact and conclusions of law on the issues of non-injury and, if appropriate, amend the decree for the purpose of precluding and remedying injury. If the Court finds that insufficient operational experience exists to permit it to consider the question of injury or to conclusively establish non-injury, it will extend the period of retained jurisdiction by an additional specified period in the amended decree pursuant to C.R.S. § 37-92-304(6).
50. Administration of the Historically Irrigated Lands: The Historically Irrigated Lands will be administered in accordance with the Administration of Parcels Claimed for Augmentation Credit Agreement between the State of Colorado and the State of Kansas dated September 30, 2005, as such agreement may be amended.
51. Use of structures: Nothing in this Decree creates or enlarges, or is to be construed as creating or enlarging, any right of LAWMA to utilize land or structures owned by parties other than LAWMA. LAWMA may utilize existing water diversion, carriage, and storage structures only to the extent it has acquired the right to use such structures from the appropriate entities by purchase or other means.

52. Filing with Water Clerk: It is ordered that this Decree be filed with the Water Clerk, and that it become effective upon such filing.
53. Filing with State and Division Engineers: It is further ordered that a copy of this Decree be filed with the Division Engineer for Water Division 2 and the State Engineer.

DATED: February 25, 2019

BY THE COURT:




LARRY C. SCHWARTZ, WATER JUDGE
WATER DIVISION 2

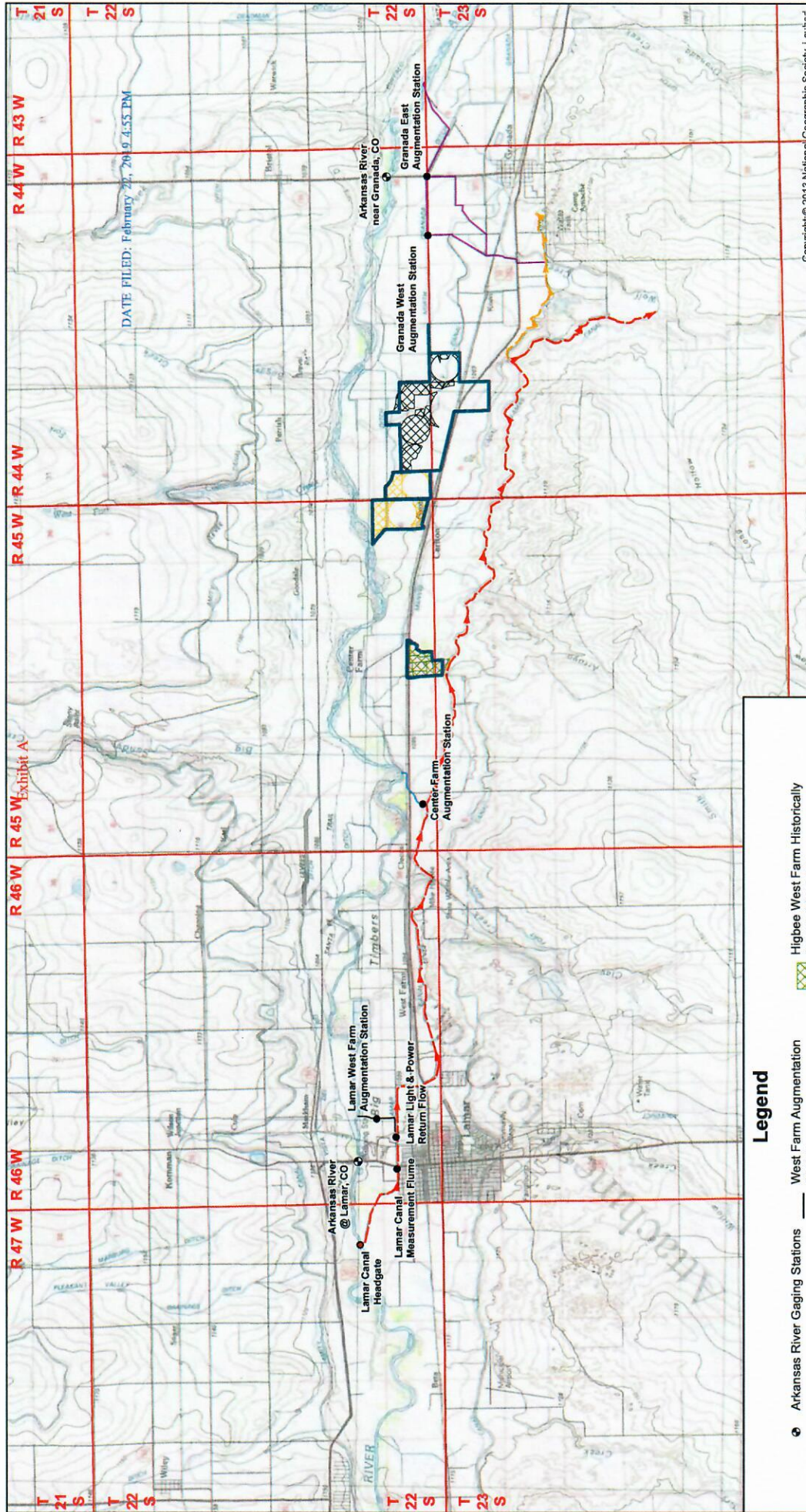


Exhibit A1

Parcels Historically Irrigated with the Lamar Canal Shares

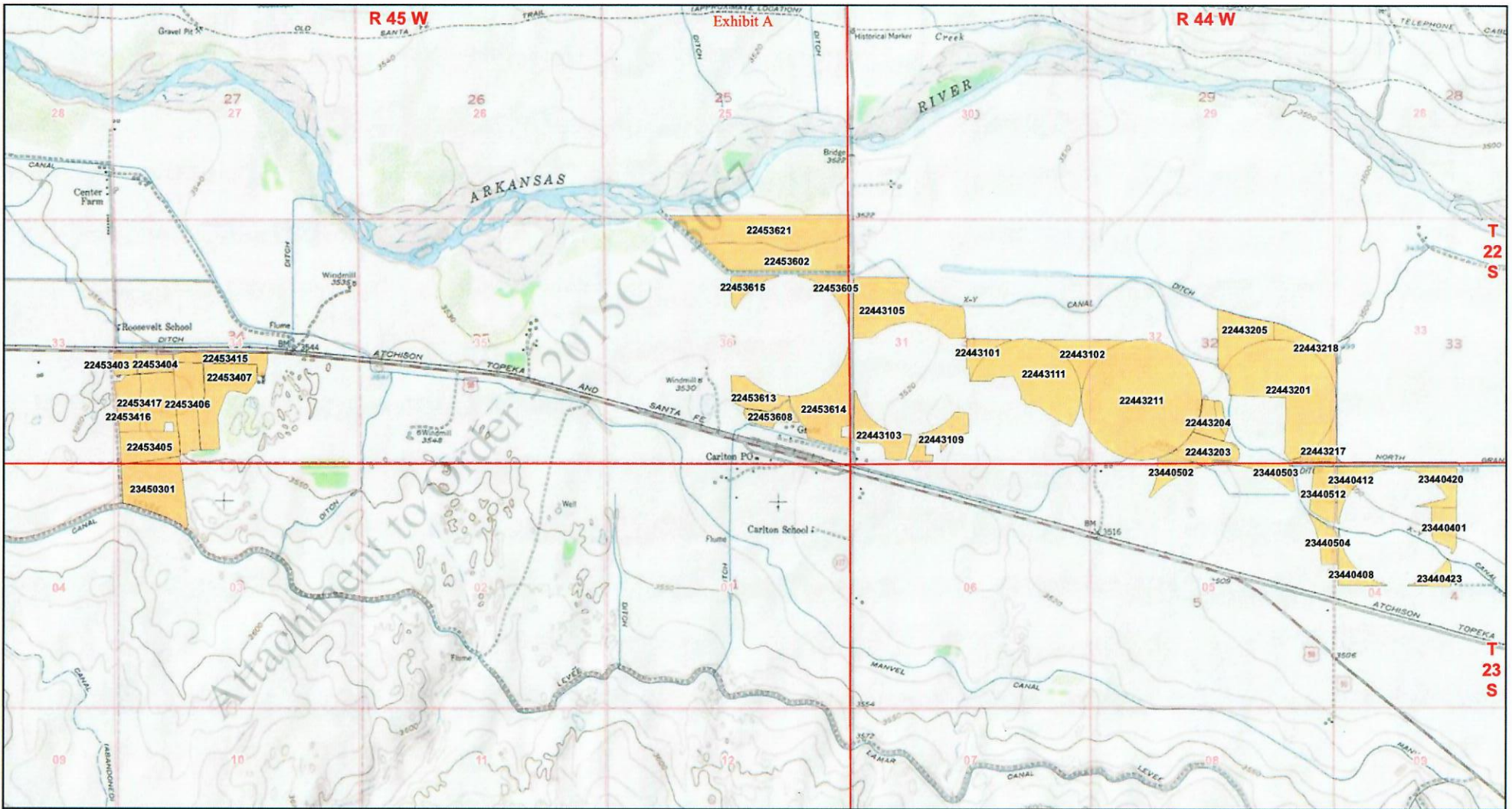
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Miles


Hendrix Wai Engineering, Inc.

Legend

<ul style="list-style-type: none"> Arkansas River Gaging Stations Lamar Canal Headgate Lamar Canal Features Lamar Canal Granada Lateral 	<ul style="list-style-type: none"> West Farm Augmentation Station Center Farm Augmentation Station Granada East & West Augmentation Stations
<ul style="list-style-type: none"> Higbee West Farm Historically Irrigated Acreage DJC-Koehn Farm Historically Irrigated Acreage Gramsick Lamar Farm Historically Irrigated Acreage Farms where Lamar Canal Shares were used 	<ul style="list-style-type: none"> West Farm Augmentation Station Center Farm Augmentation Station Granada East & West Augmentation Stations



Legend

 Dry-Up Parcels

0 1,000 2,000 4,000



Scale in Feet



**Hendrix Wai
Engineering, Inc.**

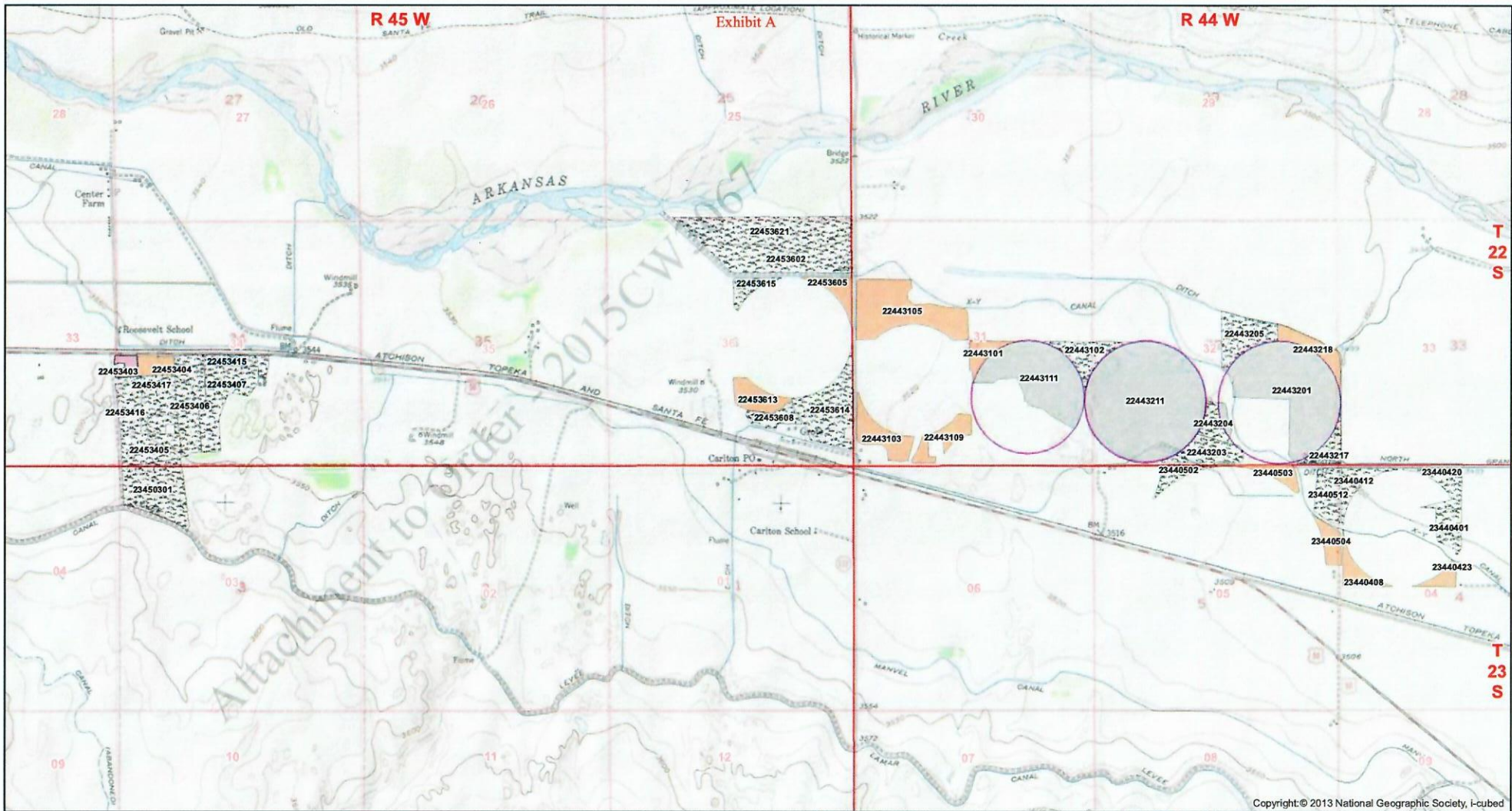
Job No.
L7501

File:
Exhibit A2
Decree.mxd

Date:
01/08/19

Prepared For:
LAWMA

Exhibit A2
15CW3067 Dry-Up Parcels
Lamar Canal



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Legend

- Phase I - Developed Non-Ag Use
- Phase II - Irrigated Farming
- Phase I - Established Groundcover
- Phase II - Not Established
- Center Pivot Sprinkler



**Hendrix Wai
Engineering, Inc.**

Job No.
L7501
File:
Exhibit A3
Decres.mxd
Date:
01/07/2019
Prepared For:
LAWMA

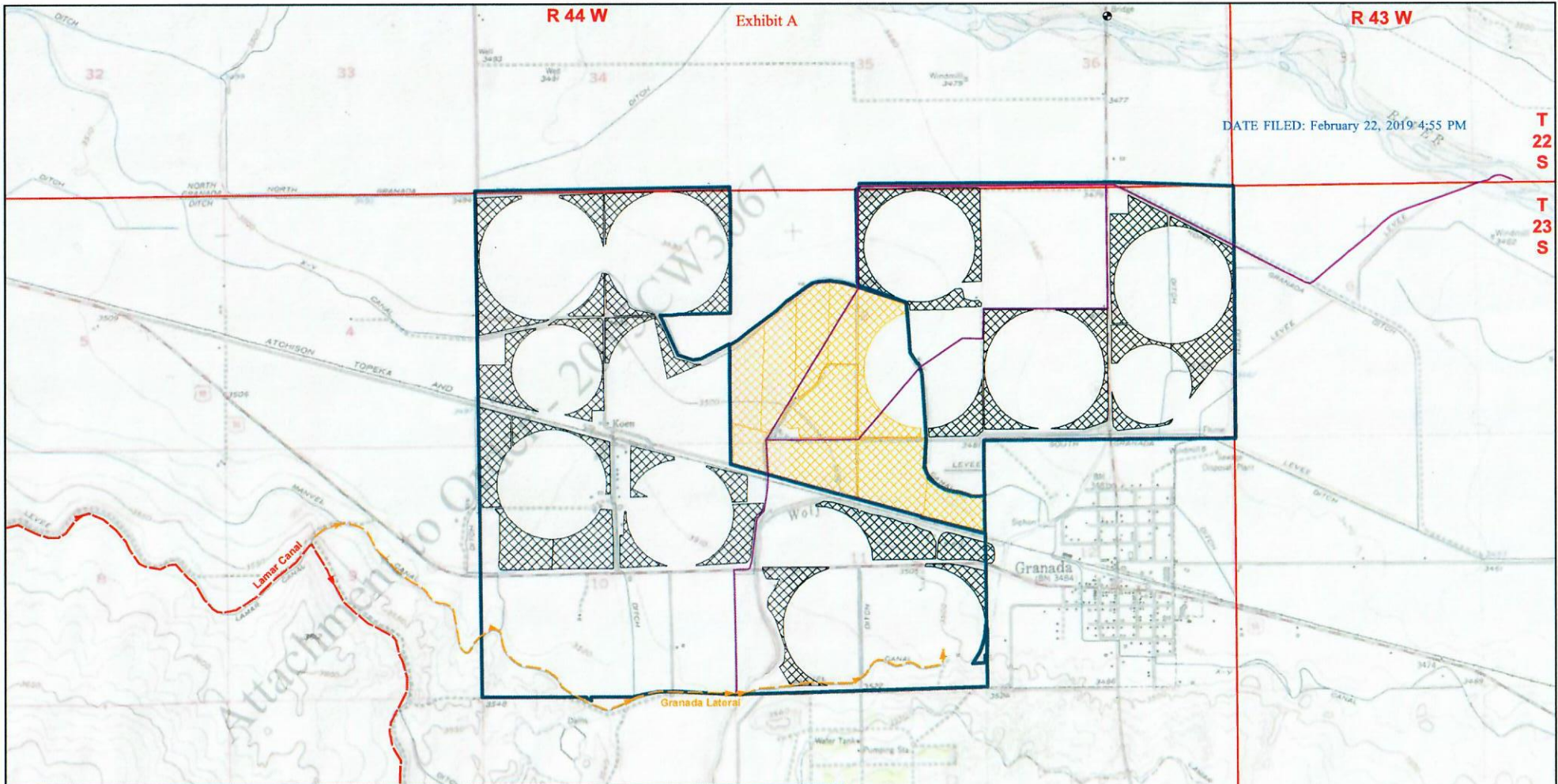
Exhibit A3
Revegetation Status of
15CW3067 Dry-Up Parcels
Lamar Canal

Exhibit A

**Exhibit A3
Revegetation Status of Lamar Canal Dry-Up Parcels**

Parcel No.	Acres	Dev'd - Non Ag Use (acres)	Irrigated Farming (acres)	Est'd Dryland Farming (acres)	Established Ground Cover (acres)	Not Established (acres)	If Irrigated Farming, WDID #(s) of sources of irrigation water	If Irrigated Farming, well permit #(s) of well(s) that supply irrigation water	If Irrigated Farming, case #(s) of augmentation plan(s) of sources of irrigation water
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
22443101	7.6	0.0	0.0	0.0	0.0	7.6			
22443102	15.2	0.0	0.0	0.0	15.2	0.0			
22443103	16.3	0.0	0.0	0.0	0.0	16.3			
22443105	46.7	0.0	0.0	0.0	0.0	46.7			
22443109	11.7	0.0	0.0	0.0	0.0	11.7			
22443111	56.7	0.0	56.7	0.0	0.0	0.0	6705543, 6705545, 6705546	3124-F, 3642-F, 15620-R	14CW3004, 02CW181
22443201	84.2	0.0	84.2	0.0	0.0	0.0	6705543, 6705545, 6705546	3124-F, 3642-F, 15620-R	14CW3004, 02CW181
22443203	15.7	0.0	0.0	0.0	15.7	0.0			
22443204	7.6	0.0	0.0	0.0	7.6	0.0			
22443205	20.6	0.0	0.0	0.0	20.6	0.0			
22443211	122.1	0.0	122.1	0.0	0.0	0.0	6705543, 6705545, 6705546	3124-F, 3642-F, 15620-R	14CW3004, 02CW181
22443217	8.7	0.0	0.0	0.0	8.7	0.0			
22443218	11.3	0.0	0.0	0.0	0.0	11.3			
22453403	4.5	4.5	0.0	0.0	0.0	0.0			
22453404	7.2	0.0	0.0	0.0	0.0	7.2			
22453405	18.4	0.0	0.0	0.0	18.4	0.0			
22453406	23.5	0.0	0.0	0.0	23.5	0.0			
22453407	28.3	0.0	0.0	0.0	28.3	0.0			
22453415	11.6	0.0	0.0	0.0	11.6	0.0			
22453416	14.0	0.0	0.0	0.0	14.0	0.0			
22453417	21.2	0.0	0.0	0.0	21.2	0.0			
22453602	38.5	0.0	0.0	0.0	38.5	0.0			
22453605	8.5	0.0	0.0	0.0	0.0	8.5			
22453608	8.1	0.0	0.0	0.0	8.1	0.0			
22453613	12.6	0.0	0.0	0.0	0.0	12.6			
22453614	33.9	0.0	0.0	0.0	33.9	0.0			
22453615	6.8	0.0	0.0	0.0	6.8	0.0			
22453621	51.4	0.0	0.0	0.0	51.4	0.0			
23440401	10.2	0.0	0.0	0.0	10.2	0.0			
23440408	8.4	0.0	0.0	0.0	0.0	8.4			
23440412	9.7	0.0	0.0	0.0	9.7	0.0			
23440420	11.1	0.0	0.0	0.0	11.1	0.0			
23440423	5.3	0.0	0.0	0.0	0.0	5.3			
23440502	7.3	0.0	0.0	0.0	7.3	0.0			
23440503	8.2	0.0	0.0	0.0	0.0	8.2			
23440504	7.9	0.0	0.0	0.0	0.0	7.9			
23440512	13.4	0.0	0.0	0.0	13.4	0.0			
23450301	35.4	0.0	0.0	0.0	35.4	0.0			
Total	830.0	4.5	263.1	0.0	410.6	151.8			

Note: The source(s) irrigation water for parcels classified as Irrigated Farming may change from time to time.



Legend

- Arkansas River Gaging Stations
- Lamar Canal
- Granada Lateral
- Granada East & West Augmentation Stations
- Farms where Granada Shares were used
- Grasmick Granada Farm Historically Irrigated Acreage
- Gass Farm Historically Irrigated Acreage

0 1,000 2,000 4,000

 Scale in Feet

**Hendrix Wai
 Engineering, Inc.**

Job No.
L101

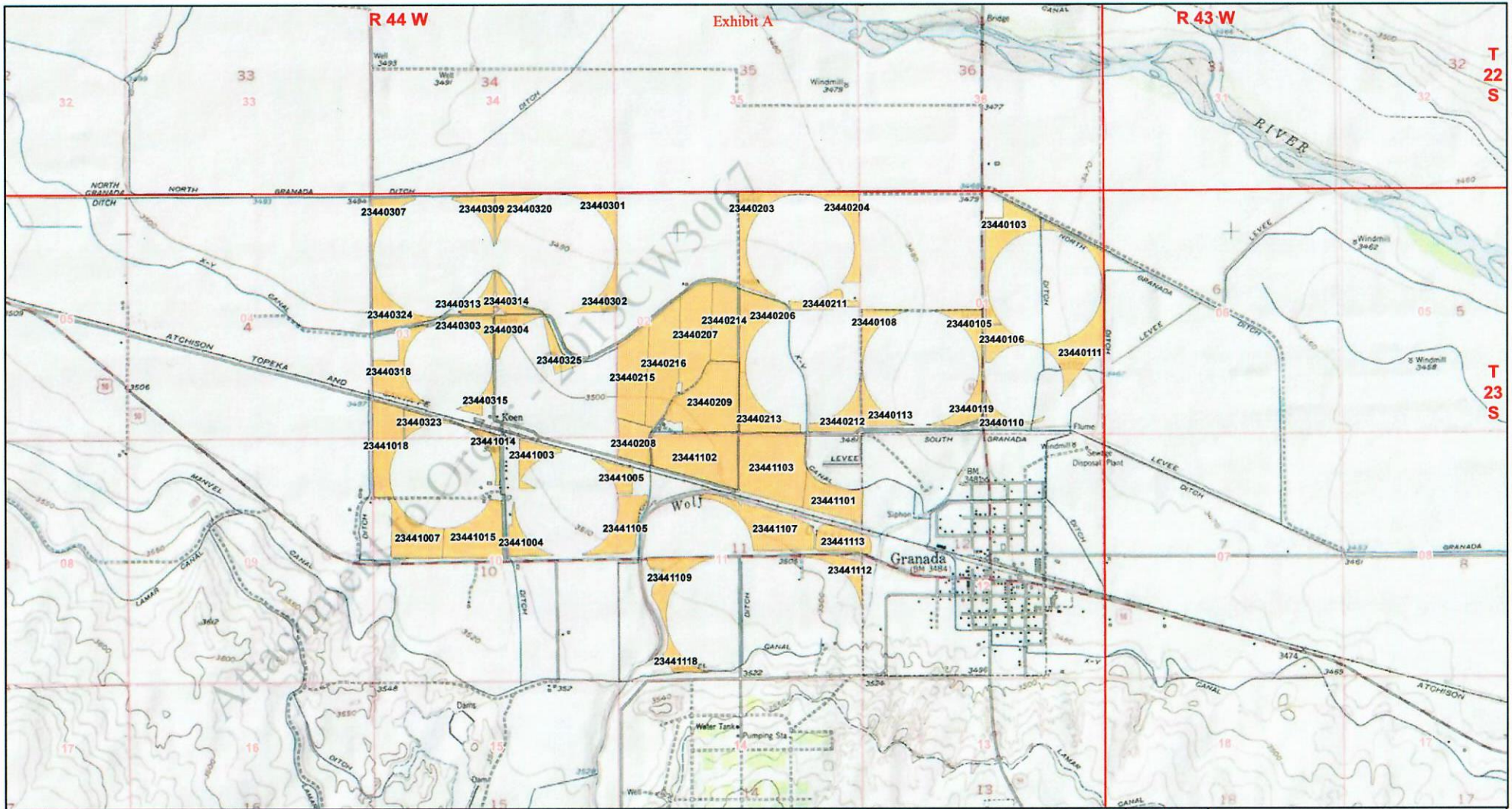
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Date:
01/31/17

Prepared For:
LAWMA

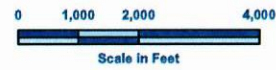
Exhibit B1

**Parcels Historically Irrigated with
 the Granada Shares**



Legend

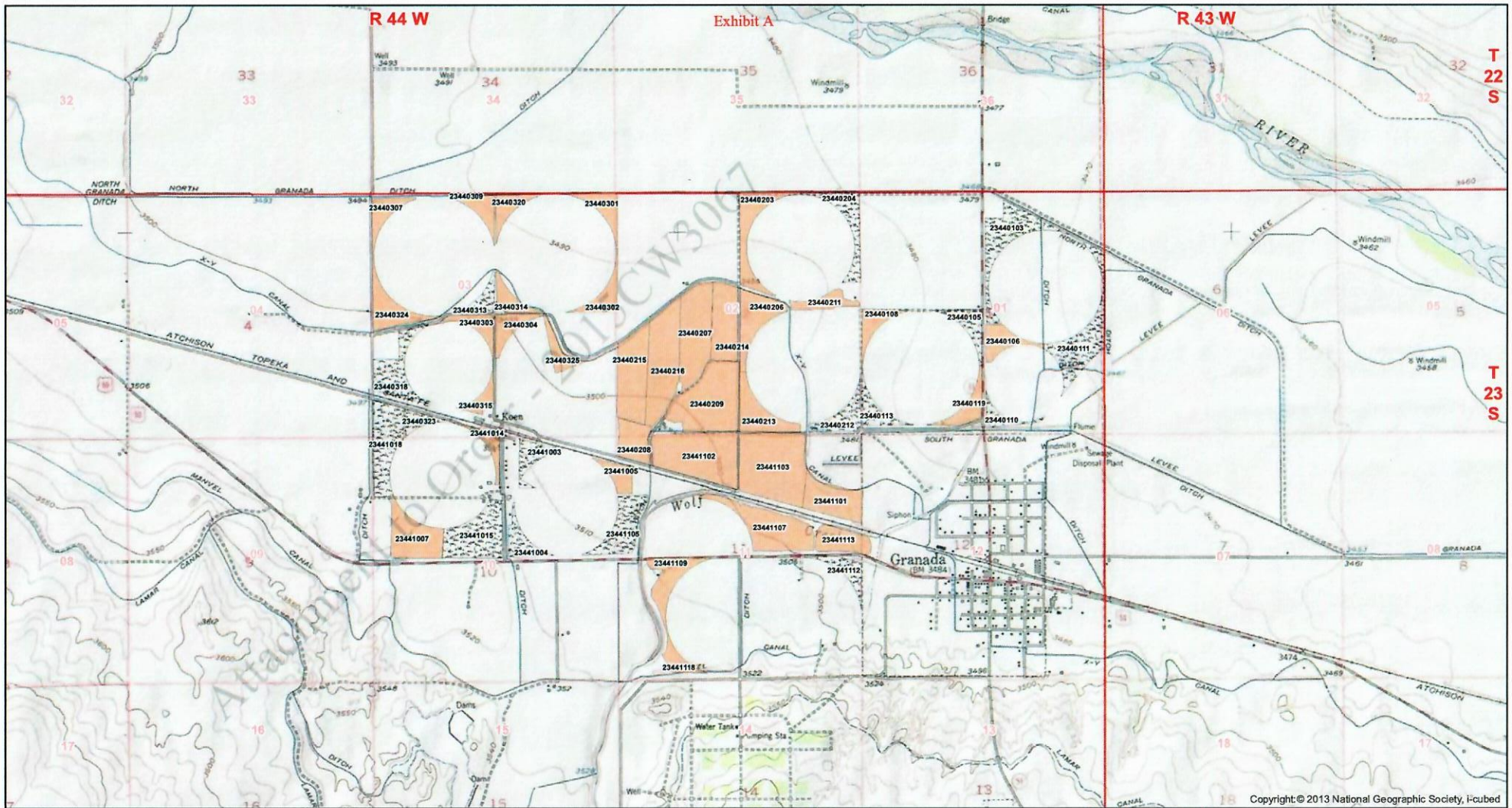
Dry-Up Parcels



**Hendrix Wai
Engineering, Inc.**



Job No.
L7501
File:
Exhibit B2
Decree.mxd
Date:
01/08/19
Prepared For:
LAWMA

Exhibit B2
15CW3067 Dry-Up Parcels
Granada Lateral



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Legend

-  Phase I - Established Groundcover
-  Phase II - Not Established



**Hendrix Wal
Engineering, Inc.**

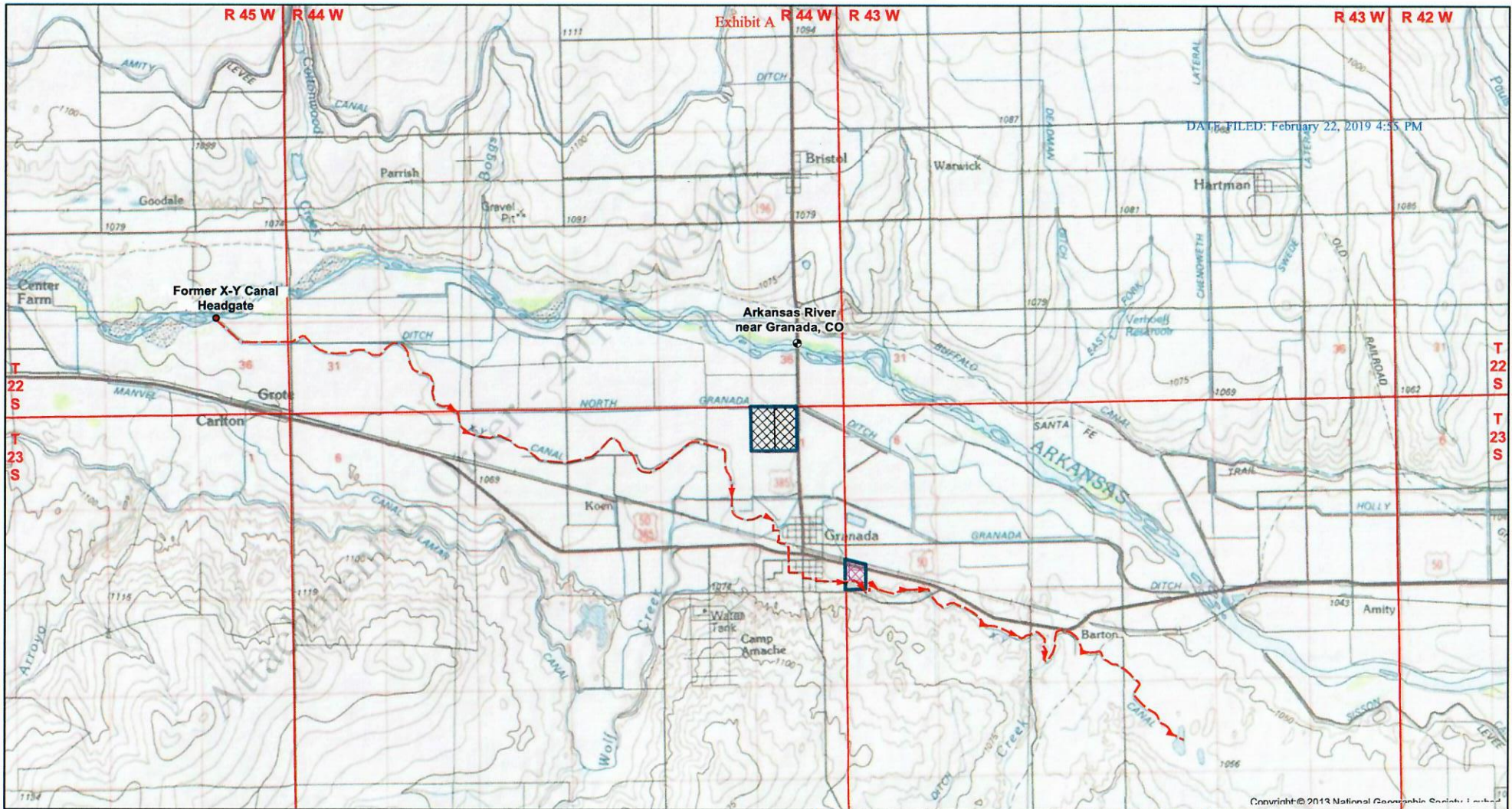
Job No.
L7501
File:
Exhibit B-3
Decree.mxd
Date:
01/07/2019
Prepared For:
LAWMA

Exhibit B3 Revegetation Status of 15CW3067 Dry-Up Parcels Granada Lateral

Exhibit A

Exhibit B3
Revegetation Status of Granada Lateral Dry-Up Parcels

Parcel No.	Acres	Dev'd - Non Ag Use (acres)	Irrigated Farming (acres)	Est'd Dryland Farming (acres)	Established Ground Cover (acres)	Not Established (acres)	If Irrigated Farming, WDID #(s) of sources of irrigation water	If Irrigated Farming, well permit #(s) of well(s) that supply irrigation water	If Irrigated Farming, case #(s) of augmentation plan(s) for sources of irrigation water
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
23440103	22.9	0.0	0.0	0.0	22.9	0.0			
23440105	9.1	0.0	0.0	0.0	9.1	0.0			
23440106	9.7	0.0	0.0	0.0	0.0	9.7			
23440108	7.9	0.0	0.0	0.0	0.0	7.9			
23440110	5.2	0.0	0.0	0.0	5.2	0.0			
23440111	27.5	0.0	0.0	0.0	27.5	0.0			
23440113	8.3	0.0	0.0	0.0	8.3	0.0			
23440119	9.0	0.0	0.0	0.0	0.0	9.0			
23440203	18.2	0.0	0.0	0.0	0.0	18.2			
23440204	15.1	0.0	0.0	0.0	15.1	0.0			
23440206	17.8	0.0	0.0	0.0	0.0	17.8			
23440207	31.8	0.0	0.0	0.0	0.0	31.8			
23440208	13.0	0.0	0.0	0.0	0.0	13.0			
23440209	41.4	0.0	0.0	0.0	0.0	41.4			
23440211	7.7	0.0	0.0	0.0	0.0	7.7			
23440212	11.3	0.0	0.0	0.0	11.3	0.0			
23440213	16.4	0.0	0.0	0.0	0.0	16.4			
23440214	21.8	0.0	0.0	0.0	0.0	21.8			
23440215	28.2	0.0	0.0	0.0	0.0	28.2			
23440216	35.4	0.0	0.0	0.0	0.0	35.4			
23440301	9.4	0.0	0.0	0.0	0.0	9.4			
23440302	8.4	0.0	0.0	0.0	0.0	8.4			
23440303	7.6	0.0	0.0	0.0	0.0	7.6			
23440304	8.6	0.0	0.0	0.0	0.0	8.6			
23440307	8.6	0.0	0.0	0.0	0.0	8.6			
23440309	8.1	0.0	0.0	0.0	0.0	8.1			
23440313	6.3	0.0	0.0	0.0	6.3	0.0			
23440314	6.9	0.0	0.0	0.0	0.0	6.9			
23440315	5.2	0.0	0.0	0.0	0.0	5.2			
23440318	18.8	0.0	0.0	0.0	18.8	0.0			
23440320	7.7	0.0	0.0	0.0	0.0	7.7			
23440323	5.7	0.0	0.0	0.0	5.7	0.0			
23440324	14.8	0.0	0.0	0.0	0.0	14.8			
23440325	7.1	0.0	0.0	0.0	0.0	7.1			
23441003	8.9	0.0	0.0	0.0	8.9	0.0			
23441004	8.4	0.0	0.0	0.0	8.4	0.0			
23441005	6.9	0.0	0.0	0.0	0.0	6.9			
23441007	21.9	0.0	0.0	0.0	0.0	21.9			
23441014	5.9	0.0	0.0	0.0	0.0	5.9			
23441015	26.1	0.0	0.0	0.0	26.1	0.0			
23441018	24.1	0.0	0.0	0.0	24.1	0.0			
23441101	20.1	0.0	0.0	0.0	0.0	20.1			
23441102	41.1	0.0	0.0	0.0	0.0	41.1			
23441103	47.3	0.0	0.0	0.0	0.0	47.3			
23441105	17.6	0.0	0.0	0.0	17.6	0.0			
23441107	29.4	0.0	0.0	0.0	0.0	29.4			
23441109	15.6	0.0	0.0	0.0	0.0	15.6			
23441112	8.1	0.0	0.0	0.0	8.1	0.0			
23441113	12.8	0.0	0.0	0.0	0.0	12.8			
23441118	6.0	0.0	0.0	0.0	0.0	6.0			
Total	781.2	0.0	0.0	0.0	223.5	557.8			



DATE FILED: February 22, 2019 4:35 PM

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Legend

- Arkansas River Gaging Stations
- Former X-Y Canal Headgate
- X-Y Canal
- ▭ Farms where XY 2.0 cfs was used
- ▨ McMillan Farm Historically Irrigated Acreage
- ▩ Grasmick XY Farm Historically Irrigated Acreage

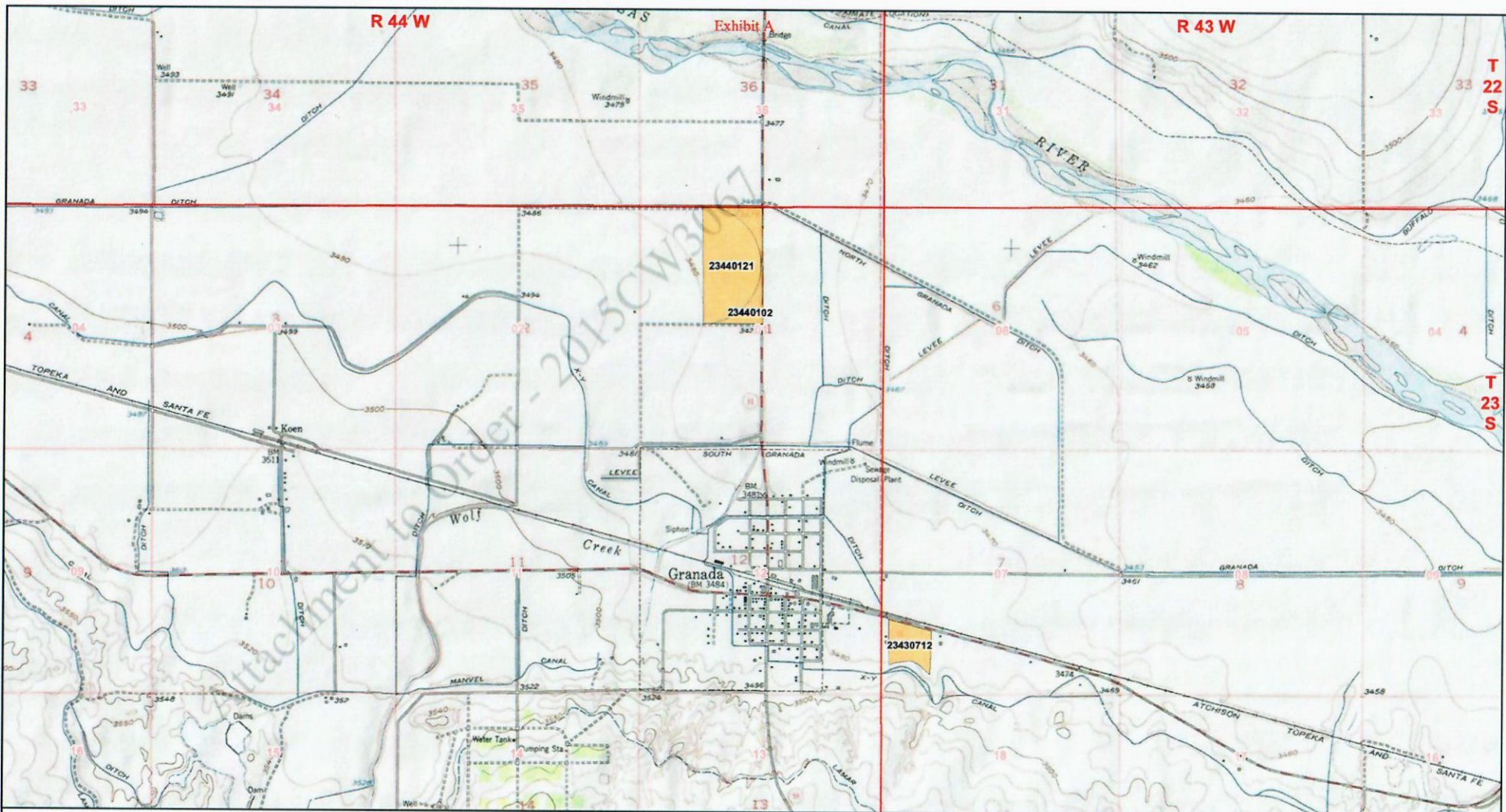


**Hendrix Wai
Engineering, Inc.**

Job No.
L101
File:
Exhibit C1
Decree.mxd
Date:
12/28/15
Prepared For:
LAWMA

Exhibit C1


**Parcels Historically Irrigated with
the X-Y 2.0 cfs**



Legend

 Dry-Up Parcels

0 1,000 2,000 4,000
 Scale in Feet



**Hendrix Wai
 Engineering, Inc.**

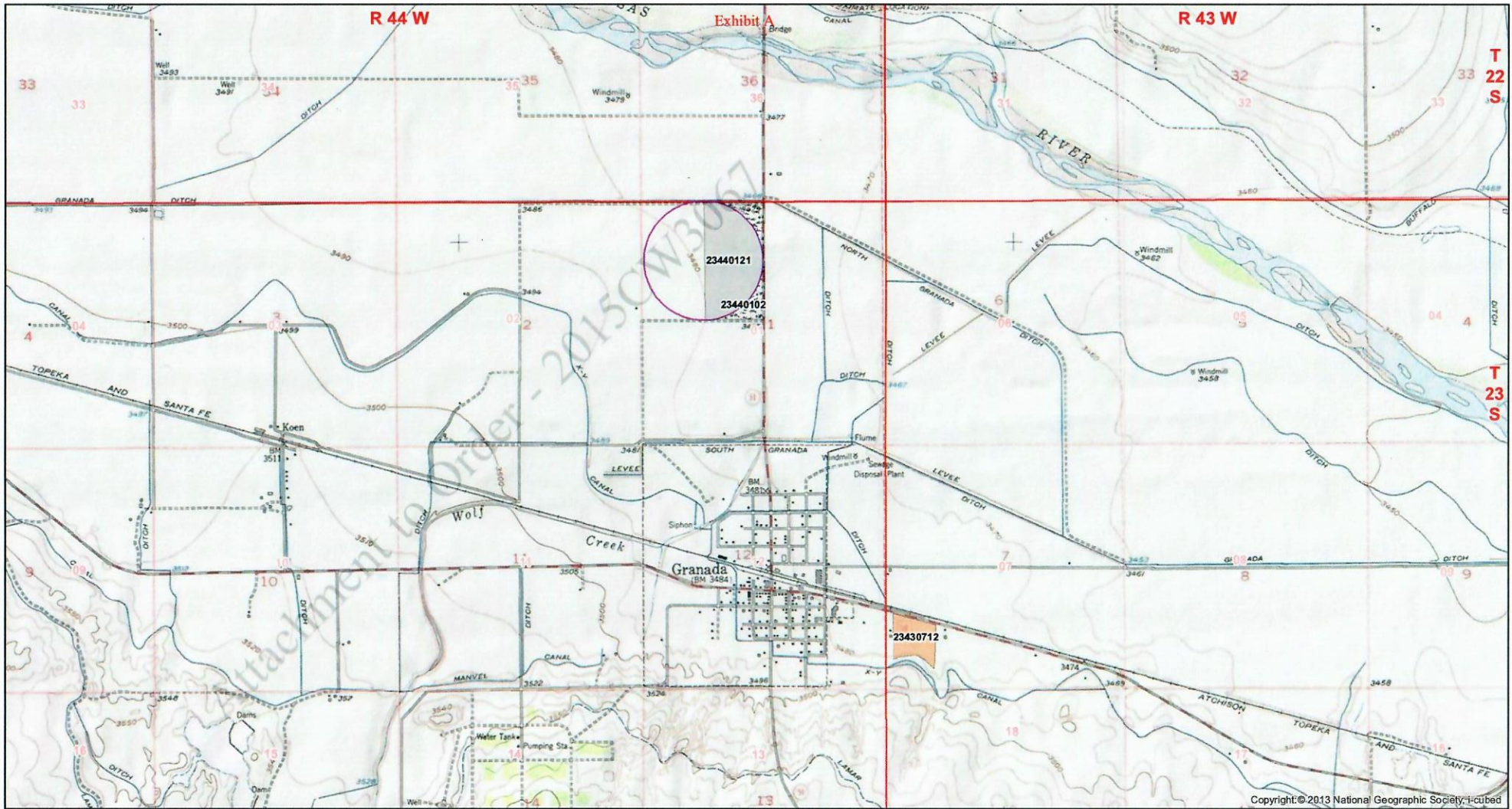
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File:
Exhibit C2
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Date:
01/26/17

Prepared For:
LAWMA

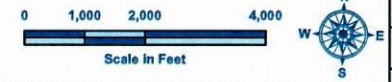
Exhibit C2
 15CW3067 Dry-Up Parcels
 X-Y Canal



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Legend

- Phase I - Established Groundcover
- Phase II - Not Established
- Phase II - Irrigated Farming
- Center Pivot Sprinkler



Scale in Feet

Hendrix Wal Engineering, Inc.

Job No.
L7501

File:
Exhibit C3
Decree.mxd

Date:
01/07/2019

Prepared For:
LAWMA

Exhibit C3
Revegetation Status of
15CW3067 Dry-Up Parcels
X-Y Canal

Exhibit A

**Exhibit C3
Revegetation Status of X-Y Canal Dry-Up Parcels**

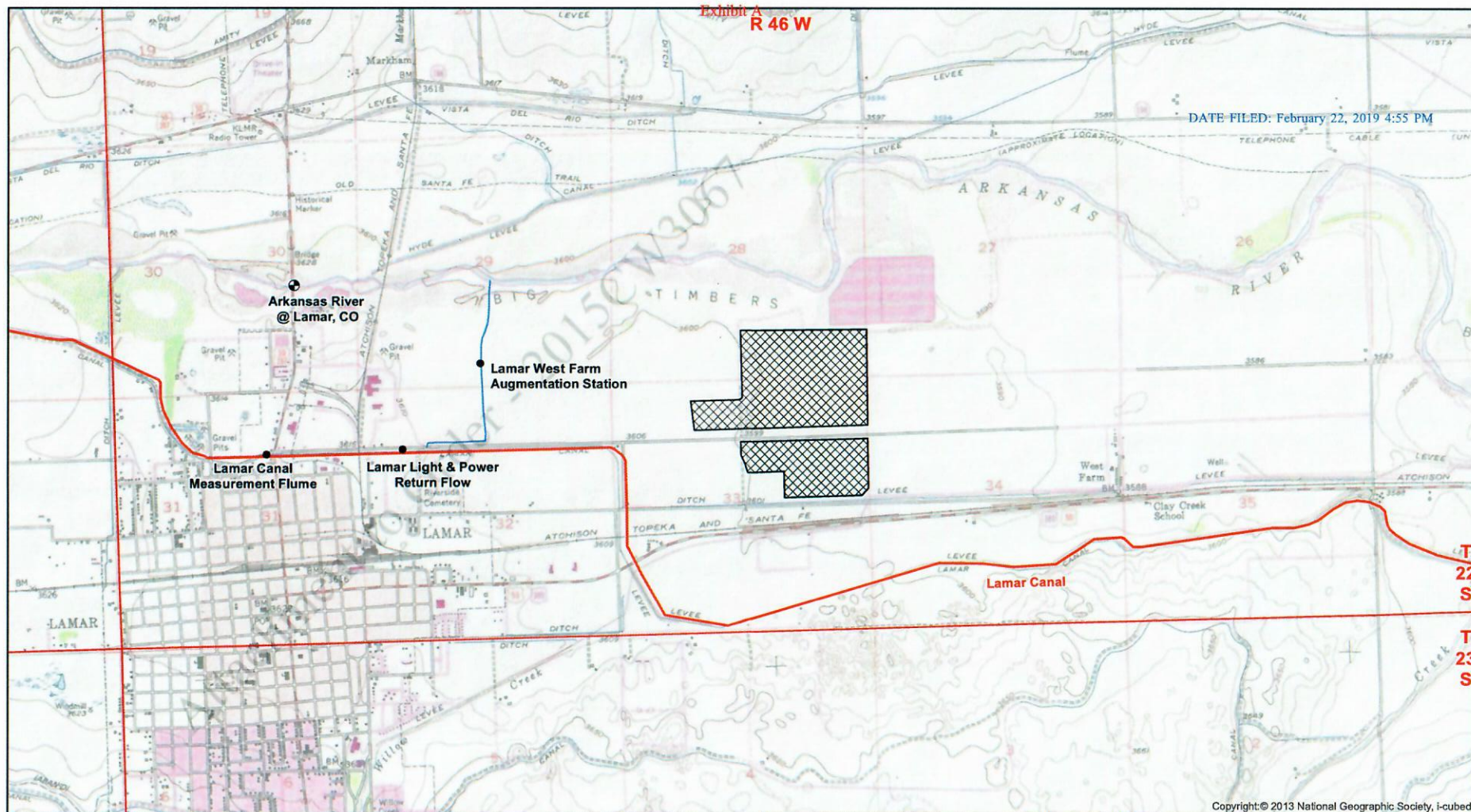
Parcel No.	Acres	Dev'd - Non Ag Use (acres)	Irrigated Farming (acres)	Est'd Dryland Farming (acres)	Established Ground Cover (acres)	Not Established (acres)	If Irrigated Farming, WDID #(s) of sources of irrigation water	If Irrigated Farming, well permit #(s) of well(s) that supply irrigation water	If Irrigated Farming, case #(s) of augmentation plan(s) for sources of irrigation water
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
23430712	17.7	0.0	0.0	0.0	0.0	17.7			
23440102	16.9	0.0	0.0	0.0	16.9	0.0			
23440121	58.1	0.0	58.1	0.0	0.0	0.0	6705477	12876-R-R	02CW181, 14CW3004
Total:	92.8	0.0	58.1	0.0	16.9	17.7			

Note: The source(s) of irrigation water for parcels classified as Irrigated Farming may change from time to time.

Attachment to Order - 2015CW3067

Exhibit A
R 46 W

DATE FILED: February 22, 2019 4:55 PM



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Legend

- Lamar Canal Features
- Arkansas River Gaging Stations
- West Farm Augmentation Station
- Lamar Canal
- ▨ West Farm Gravel Pit



Job No. L101
File:
Exhibit D.mxd
Date: 03/16/2018
Prepared For: LAWMA

Exhibit D

West Farm Gravel Pit Storage

Hendrix Wai
Engineering, Inc.

To: Richard Mehren – Moses, Wittemyer, Harrison & Woodruff, P.C.
Jennifer DiLalla – Moses, Wittemyer, Harrison & Woodruff, P.C.
William Davidson – Moses, Wittemyer, Harrison & Woodruff, P.C.

From: Randy L. Hendrix

Date: September 22, 2017

Subject: Measurement of the X-Y Canal Water Right at the Arkansas River near Granada, CO
Streamflow Gage – 15CW3067

The diversion dam for the X-Y Canal headgate is no longer a functional diversion structure. Therefore, the yield of LAWMA's X-Y Rights will be measured using the USGS streamflow gage Arkansas River near Granada, CO (07134180). This stream gage is located approximately one mile downstream from the Buffalo Headgate. The following description applies to days when Kansas Offset Account Water and Kansas Article II water is not being delivered to the Stateline. The replacement water available to LAWMA's X-Y Rights may be measured using the following 3 steps on a daily basis:

1. Available diversion is limited to the measured flow at the Granada stream gage minus any deliveries to the Stateline minus 5 cfs. The 5 cfs reduction is to account for the small amount of gain between the Buffalo Canal Headgate and the Granada stream gage. This measurement accounts for the stream gain in the reach from the Lamar Canal Headgate to the Buffalo Canal Headgate that is available for diversion by the X-Y Canal since the measured flow at the Granada stream gage already reflects the diversions by the senior water rights of the Buffalo Canal and the Hyde Ditch. The 5 cfs gain was derived from inspection of the Granada stream gage during periods the Buffalo Canal was sweeping the river in dry years. An example of a Stateline delivery would be LAWMA's Lamar Canal shares delivered to the river at the Center Farm augmentation station.
2. Available diversion is further limited by the estimated physical flow at the XY Headgate minus any deliveries to the Stateline. During most days, the calculation in this step will be greater than the available flow calculated in step 1 because a portion of the available flow calculated in this step is gain necessary to satisfy the Buffalo Canal. However, the flow in this step will be the controlling flow during periods when the stream gain between the X-Y Canal headgate and the Buffalo Canal Headgate exceeds the demands of the Buffalo Canal. The flow at the XY Diversion Dam is estimated as $0.79 \times (\text{Buffalo Diversions} + \text{Granada Gage})$. This relationship was determined by a regression analysis of the Carlton Gage versus the Total of the Buffalo Diversions + Granada Gage. The Carlton Gage is located just downstream from the old X-Y Canal headgate.
3. The minimum of the available flow determined in steps 1 and 2 is further limited by LAWMA's water right amount of 2 cfs and the monthly, annual, and 20-year volumetric limitations.

Historically, estimating the yield of the XY water right has been difficult when Kansas is releasing water from John Martin Reservoir and LAWMA has worked with the Division Engineers office to try to refine the procedure. Based on the recent agreement between Colorado and Kansas to govern the releases from the Offset Account it appears that the XY deliveries to the Stateline would be included in the 6-day antecedent flow calculations. Therefore, when Kansas makes a reservoir release, the XY yield will be estimated with appropriate limitations at the Stateline and the Granada gage as described in Paragraphs 3 and 5 of 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". It would also appear that if the flow at the stateline is above the "Muskingham Routed Flow", this flow should be considered an increase in antecedent flow and a portion of this flow is attributable to the XY water right.¹

¹ Reference from Exhibit H of LAWMA's Case No. 02CW181

EXHIBIT F

I. Revegetation Category Criteria

DATE FILED: February 22, 2019 4:55 PM

A Dry-Up Parcel must meet the following criteria to be classified within the following Revegetation Categories:

- a. **Irrigated Farming:** The Dry-Up Parcel is irrigated with a source of water described in paragraph 20.2 of this Decree.
- b. **Developed Non-Ag Use:** The Dry-Up Parcel has been developed with buildings, grain storage facilities, railways or railroad facilities, oil or gas facilities, wind power generation facilities, power transmission facilities, pump houses, recharge facilities, augmentation stations, feed yards, roads, reservoirs, drains, impervious surfaces, or other facilities or structures that will adequately control weeds and/or erosion of the soil caused by wind; or the Dry-Up Parcel has been developed for a non-agricultural use that is allowed under applicable land-use regulations but that precludes establishing groundcover or dry-land farming on the Dry-Up Parcel, and weeds and/or erosion of the soil caused by wind are adequately controlled in a manner consistent with state and local law.
- c. **Established Groundcover:** The Dry-Up Parcel meets the criteria for Class VI or Class VII of the Groundcover Classification Schedule in section III below, with weeds adequately controlled in a manner consistent with state and local law; or groundcover has been established on the Dry-Up Parcel as far as can be reasonably expected and weeds and/or erosion of the soil caused by wind are adequately controlled in a manner consistent with state and local law.
- d. **Established Dry-Land Farming:**
 1. **Definition:** Dry-land Farming means the establishment and maintenance of dry-land farming practices with weeds adequately controlled and with soil erosion from wind controlled in a manner consistent with state and local law. Dry-land farming practices include No-Till Dry-Land Farming and Minimum-Tillage Dry-Land Farming, as those terms are defined below.
 - i. **No-Till Dry-Land Farming** means a system of planting seeds into untilled soil by opening a narrow slot, trench or band, of sufficient width and depth to obtain proper seed coverage. Because no soil tillage is utilized, a farmer must rely on herbicides to control the weeds. Both contact and residual herbicides may be used. Periodic fallowing and crop rotation may be used to stabilize the crop yields and allow the soil to rest.

- ii. **Minimum-Tillage Dry-Land Farming** means management of farming operations which seeks to minimize impacts from tilling through the use of a sweep plow, strip-till, or similar technology. Additionally, a farmer may rely on herbicides to control weeds. Both contact and residual herbicides may be used. Periodic fallowing and crop rotation may be used to stabilize the crop yields and allow the soil to rest.
2. **Criteria for classification as Established Dry-Land Farming in an Annual Revegetation Status Report:** The Dry-Up Parcel has been planted to a dry-land crop or is in a fallow period following a dry-land crop; the crop was planted and farmed without irrigation water, such that it is dependent solely upon precipitation to meet crop water requirements; if other dry-land farming in the region is producing crops, the farm also is producing a dry-land crop with weeds adequately controlled and with soil erosion from wind controlled in a manner consistent with state and local law; and minimum crop residue after harvest of the dry-land crop is as described below, and the crop residue is left on the Dry-Up Parcel until the Dry-Up Parcel is prepared for the next rotation of planting; provided, however, that this requirement for crop residue does not prevent a farmer from controlling weeds by mechanical tillage of the Dry-Up Parcel or using other acceptable methods of weed control that do not disturb the residue on the surface. For grain crops, such as winter wheat or milo, minimum crop residue must be at least thirty percent (30%), determined by the step-point method. For hay or forage crops, crop stubble must measure at least five inches, with row spacing no more than thirty inches.
3. **Additional criteria for classification as Established Dry-Land Farming in a Revegetated Parcel(s) Report:** In order to be classified as Established Dry-Land Farming in a Revegetated Parcel(s) Report, a Dry-Up Parcel must meet the following criteria in addition to the criteria listed above: The Dry-Up Parcel has been classified as Established Dry-Land Farming in accordance with the criteria in section II.d.2 above for three full crop rotation cycles (one cycle equals two years crop production and one year fallow with appropriate stubble and weed control, for a total of three years).
 - e. **Not Established:** The Dry-Up Parcel does not meet the criteria to be classified as Irrigated Farming, Developed Non-Ag Use, Established Groundcover, or Established Dry-Land Farming.
 - f. **Confirmed Revegetated:** The Dry-Up Parcel is the subject of a Revegetated Parcel(s) Report that has been filed and accepted under paragraph 19.3 of this Decree.

II. Groundcover Classification Schedule

- a. **CLASS I:** Full seeding and irrigation needed, either first seeding or reapplication of seeding. Desired plants scarce or absent.
- b. **CLASS II:** Seeding and irrigation completed. Stand undetermined. Usually this will occur at the beginning of the second growing season following seeding.
- c. **CLASS III:** Stand is variable. Part of the field has an adequate stand and part does not. Plants may be juvenile plants to well-developed mature plants. More than 10% of field with an inadequate stand on areas exceeding one acre in size. Plant frequency of desirable plant on deficient areas is less than 10%. Such deficient areas will require reseeded.
- d. **CLASS IV-A:** Stand is inadequate; frequency is less than 10% but plants are fairly well distributed over field. Field may need reseeded.
- e. **CLASS IV-B:** Stand is inadequate; frequency is between 10% to 15%. Plants are uniformly distributed over the field. No further seeding then recommended as the stand is expected to develop.
- g. **CLASS V:** Stand appears adequate, but root system is undeveloped. There are 10% to 15% or more desired plants per count. Good potential for stand establishment. Generally found after the first growing season but possibly the second growing season.
- h. **CLASS VI:** Stand adequate. Plants well rooted. Desirable plant frequency range 15% to 20%; no deficient areas larger than one acre in size over 90% of the field. This may occur following second growing season but more likely after the third growing season and beyond.
- i. **CLASS VII:** Stand adequate. Plants well rooted with vigorous top growth. Desirable Plant frequencies are 20% to 30% or more over 90% of the field. No deficient areas larger than one acre in size. Generally occurring the third growing season and beyond.

III. Annual Revegetation Status Report

In addition to the information required by Paragraph 21 of this Decree, each Annual Revegetation Status Report must include the following information:

- a. For each Dry-Up Parcel not classified as Not Established, whether the Dry-Up Parcel is being dry-land farmed or established in groundcover.

Exhibit A

- b. For each Dry-Up Parcel classified as Not Established and not dry-land farmed during the preceding year, the efforts undertaken in the preceding year to establish groundcover on the dried-up acreage, including without limitation the seeding rate, type and composition of blend by percentage and date planted, information about herbicides or pesticides applied, and information about efforts to control erosion of the soil caused by wind.
- c. For each Dry-Up Parcel not classified as Confirmed Revegetated, Irrigated Farming, or Developed Non-Ag Use and not dry-land farmed during the preceding year, a classification of the Dry-Up Parcel under the Groundcover Classification Schedule in section II above, including whether groundcover has been established on the Dry-Up Parcel as far as can reasonably be expected.
- d. For each Dry-Up Parcel not classified as Confirmed Revegetated that was dry-land farmed during the preceding year, the efforts undertaken in the preceding year to convert the Farm to dry-land Farming, including information about tilling practices, the planting and fallowing rotation, the crops planted, and the acres fallowed; information about herbicides or pesticides applied; information about efforts to control erosion of the soil caused by wind; information about the amount of crops harvested or the number of animal units grazing the land; and information about the amount of crops planted and harvested by other dry-land farmers in the area during the preceding year;
- e. For each Dry-Up Parcel not classified as Confirmed Revegetated that was dry-land farmed during the preceding year, whether the crop is a grain crop or a hay/forage crop. If the crop is a grain crop, the percentage crop residue determined using the step-point method, and if the crop is a hay/forage crop, the stubble height in inches and the row spacing in inches.
- f. The approximate annual precipitation that fell on the Phase II Land, which may be estimated based on the average of published local weather station data.
- g. Any factors that had a negative impact on efforts to establish groundcover on or dry-land farm the Phase II Land.
- h. Whether water was used to assist in establishing groundcover or converting to dry-land farming, and if water was so used, the source of the water, the amount applied, and the method of application.
- i. A comparison of the current conditions of the Dry-Up Parcels included in the Annual Revegetation Status Report to their past conditions as reported in previous Annual Revegetation Status Reports.

- j. A map: (i) depicting the then current status of the Phase II Land; and (ii) identifying the source of irrigation water for any parcel of the Phase II Land classified as Irrigated Farming.

Attachment to Order - 2015CW3067

EXHIBIT G

PRELIMINARY - PROVIDED SEPTEMBER 11, 2018

TABLE 1
LAWMA's REPLACEMENT SOURCES FROM X-Y AND MANVEL DIRECT FLOW WATER RIGHTS
(values in cfs unless otherwise noted)

Month: September

Year: 2018

DATE FILED: February 22, 2019 4:55 PM

Day	Flow at Lamar Gage	Hyde Div	Buffalo Div	Flow at Granada Gage	Flow at Stateline (Coolidge + Frontier)	Gain to Granada	Lamar to Stateline	LAWMA's Delivery to Reaches Above Buffalo	LAWMA's Delivery to Reaches Below Buffalo	Winter Return Flows above the Buffalo	Sisson & Stubbs Delivery to Stateline	Kansas JMR Delivery @ Stateline	Stateline Flow in Excess of Kansas Delivery	Unused Native Flow at Lamar R.G.	Granada Gage												
															LAWMA's Divertable Water	Total Avail Under X-Y Right	Total Avail 02CW181 X-Y	Total Avail 15CW306 7 X-Y	Total Avail Under Manvel Right	Total Avail Under Graham Right	Unused Native Flow						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)						
1	121.0	11.0	64.3	128.0	196.6	82.3	150.9	27.40	6.55	0.00	2.25	Yes	128.0	No	128.0	69.0	67.0	2.0	25.2	16.5	17.3						
2	121.0	10.8	64.4	129.0	203.5	83.2	157.7	28.03	6.01	0.00	2.25	Yes	129.0	No	129.0	69.0	67.0	2.0	0.0	16.5	43.5						
3	122.0	10.7	64.6	133.0	241.9	86.3	195.2	27.44	6.30	0.00	2.25	Yes	133.0	No	133.0	69.0	67.0	2.0	0.0	16.5	47.5						
4	115.0	11.4	65.1	139.0	324.9	100.4	286.3	25.83	6.91	0.00	2.25	Yes	139.0	No	139.0	45.1	43.8	1.3	0.0	16.5	77.4						
5	36.6	12.5	64.3	123.0	300.5	163.2	340.7	22.42	5.05	0.00	2.25	Yes	123.0	No	123.0	0.0	0.0	0.0	0.0	16.5	106.5						
6	26.9	16.1	62.0	95.2	257.0	146.3	308.1	18.65	4.80	0.00	2.25	Yes	95.2	No	95.2	0.0	0.0	0.0	0.0	16.5	78.7						
7	24.5	22.0	61.4	90.8	244.0	149.7	302.9	21.07	5.61	0.00	2.25	No	90.8	No	85.8	0.0	0.0	0.0	0.0	16.5	69.3						
8	17.8	20.0	61.0	85.6	232.0	148.8	295.2	24.04	6.83	0.00	2.25	No	85.6	No	80.6	0.0	0.0	0.0	0.0	16.5	64.1						
9	16.7	16.4	60.6	82.8	222.0	143.1	282.3	24.51	8.70	0.00	2.25	No	82.8	No	77.8	0.0	0.0	0.0	0.0	16.5	61.3						
10	20.5	14.3	60.0	79.0	221.0	132.9	274.9	24.78	11.53	0.00	2.25	No	79.0	No	74.0	0.0	0.0	0.0	0.0	16.5	57.5						
11	20.9	16.2	59.7	76.9	218.0	131.9	273.0	24.05	8.77	0.00	2.25	No	76.9	No	71.9	0.0	0.0	0.0	0.0	16.5	55.4						
12	19.9	13.8	59.6	75.5	208.0	129.0	261.5	24.02	4.70	0.00	2.25	No	75.5	No	70.5	0.0	0.0	0.0	0.0	16.5	54.0						
13	19.5	10.5	59.2	72.0	192.0	122.3	242.3	24.00	5.43	0.00	2.25	No	72.0	No	67.0	0.0	0.0	0.0	0.0	16.5	50.5						
14	18.6	10.4	59.0	70.0	177.0	120.8	227.8	22.91	5.23	0.00	2.25	No	70.0	No	65.0	0.0	0.0	0.0	0.0	16.5	48.5						
15	17.1	10.5	58.4	66.7	175.0	118.6	226.9	23.61	3.65	0.00	2.25	No	66.7	No	61.7	0.0	0.0	0.0	0.0	16.5	45.2						
16	16.3	11.0	58.4	64.8	172.0	117.9	225.1	23.34	2.35	0.00	2.25	No	64.8	No	59.8	0.0	0.0	0.0	0.0	16.5	43.3						
17	16.4	11.0	63.1	59.5	155.0	117.2	212.7	22.80	2.35	0.00	2.25	No	59.5	No	54.5	0.0	0.0	0.0	0.0	16.5	38.0						
18	16.0	10.8	65.9	55.0	147.0	115.7	207.7	20.78	2.50	0.00	2.25	No	0.0	No	50.0	0.0	0.0	0.0	0.0	16.5	33.5						
19	15.5	11.6	65.6	52.8	146.0	114.5	207.7	18.38	2.71	0.00	2.25	No	0.0	No	47.8	0.0	0.0	0.0	0.0	16.5	31.3						
20	15.5	11.2	65.0	49.2	150.0	109.9	210.7	8.65	5.51	0.00	2.25	No	0.0	No	44.2	0.0	0.0	0.0	0.0	16.5	27.7						
21	15.6	11.6	64.1	43.9	147.0	104.0	207.1	6.29	3.94	0.00	2.25	No	0.0	No	38.9	0.0	0.0	0.0	0.0	16.5	22.4						
22	16.2	12.0	63.6	41.4	143.0	100.7	202.3	9.51	5.77	0.00	2.25	No	0.0	No	36.4	0.0	0.0	0.0	0.0	16.5	19.9						
23	16.4	12.3	64.2	42.6	152.0	102.8	212.2	10.29	9.86	0.00	2.25	No	0.0	No	37.6	0.0	0.0	0.0	0.0	16.5	21.1						
24	15.3	11.7	64.0	40.7	150.0	101.1	210.4	9.02	9.02	0.00	2.25	No	0.0	No	35.7	0.0	0.0	0.0	0.0	16.5	19.2						
25	16.2	11.4	63.5	38.2	147.0	96.9	205.7	9.77	6.56	0.00	2.25	No	0.0	No	33.2	0.0	0.0	0.0	0.0	16.5	16.7						
26	16.8	11.7	63.5	38.1	147.0	96.5	205.4	10.07	6.66	0.00	2.25	No	0.0	No	33.1	0.0	0.0	0.0	0.0	16.5	16.6						
27	28.5	12.8	63.9	40.4	141.0	88.6	189.2	11.51	6.79	0.00	2.25	No	0.0	No	35.4	0.0	0.0	0.0	0.0	16.5	18.9						
28	17.6	12.8	64.6	42.6	138.0	102.4	197.8	14.33	6.79	0.00	2.25	No	0.0	No	37.6	0.0	0.0	0.0	0.0	16.5	21.1						
29	26.8	11.5	64.6	44.5	142.0	93.9	191.4	14.71	4.44	0.00	2.25	No	0.0	No	39.5	0.0	0.0	0.0	0.0	16.5	23.0						
30	15.1	10.8	64.8	43.8	141.0	104.3	201.5	16.83	6.06	0.00	2.25	No	0.0	No	38.8	0.0	0.0	0.0	0.0	16.5	22.3						
31																											
Monthly Average (cfs)															67.5	8.4	8.2	0.2	0.8	16.5	41.7						
Total (ac-ft)															4,014.6	500.0	485.5	14.5	50.0	980.4	2,484.2						
LAWMA CU CREDITS (ac-ft)															88.0							314.5	305.4	9.7	29.2		
															Days With Unused Native Flow			0			Days Graham Ditch in Priority			30			
															Percentage of Month Call on John Martin to Lamar Canal			100%			% of Month Graham In Priority			100%			
																						Percentage of Month Call on River			0%		
15CW3067 X-Y Winter Return Flow Obligation (Delivered during April and/or May)															0							ac-ft					

Notes:

- 1) All Values are demonstrative and not an actual representation of actual September 2018 accounting
- 2) 15CW3067 X-Y Winter Return Flows will be tracked on the previous year's monthly river headgate diversions and delivered out of the monthly CU credits in April and/or May. In other source such as CU water in the gravel pit will be noted.

Column Explanations:

- 1) Day of the current month of accounting.

Exhibit A

LAWMA's REPLACEMENT SOURCES FROM X-Y AND MANVEL DIRECT FLOW WATER RIGHTS
(values in cfs unless otherwise noted)

Month: September

Year: 2018

Day	Flow at Lamar Gage	Hyde Div	Buffalo Div	Flow at Granada Gage	Flow at Stateline (Coolidge + Frontier)	Gain to Granada	Gain to Stateline	LAWMA's Delivery to Reaches Above Buffalo	LAWMA's Delivery to Reaches Below Buffalo	Winter Return Flows above the Buffalo	Sisson & Stubbs Delivery to Stateline	Kansas JMR Delivery @ Stateline	Stateline Flow in Excess of Kansas Delivery	Unused Native Flow at Lamar R.G.	Granada Gage						
															LAWMA's Divertable Water	Total Avail Under X-Y Right	Total Avail 02CW181 X-Y	Total Avail 15CW306 7 X-Y	Total Avail Under Manvel Right	Total Avail Under Graham Right	Unused Native Flow
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)

- 2) Arkansas River at Lamar, CO streamflow gage obtained from USGS data imported onto the Streamflows tab
- 3) Hyde Ditch river headgate diversion obtained from CDWR data imported onto the Streamflows tab
- 4) Buffalo Canal river headgate diversions obtained from CDWR data imported onto the Streamflows tab
- 5) Arkansas River near Granada, CO streamflow gage obtained from USGS data imported onto the Streamflows tab
- 6) Stateline stream flow (Arkansas River near Coolidge, KS + Frontier Ditch diversions) obtained from USGS data imported onto the Streamflows tab
- 7) Column 5 + Column 4 + Column 3 - Column 2
- 8) Column 6 + Column 4 + Column 3 - Column 2
- 9) Total flow from West Farm and Center Farm Augmentation stations - West Farm and Center Farm Rule 10 deliveries - Return flows owed to Stateline
- 10) Total flow from Granada West farm and Granada East Augmentation stations - Granada West and Granada East Rule 10 deliveries - Return flows owed to Stateline
- 11) Winter Return flows owed to Stateline above Buffalo Canal (Table 5 column 27)
- 12) Sisson & Stubbs Ditch estimated at 134.1 acre-feet per month of diversions and 88 acre-feet per month consumptive use credits.
- 13) Kansas John Martin Reservoir releases at the Stateline (Yes / No)
- 14) Arkansas River near Granada, CO streamflow greater than the release rate of Kansas John Martin Reservoir water after a 2 day lag.
- 15) Unused Native flow at the Arkansas River at Lamar, CO streamflow gage greater than 20 cfs (Yes / No)
- 16) If Column 13 = Yes then Column 14.
If Column 13 = No then maximum of Column 5 - 5 cfs - Column 11, 79% of Columns 4 and 5 - Column 9
- 17) Minimum of Column 16 and 69 cfs; daily totals are then limited to the maximum amount of XY Call on the river in acre-feet.
- 18) Column 17 x 67/69
- 19) Column 17 x 2/69
- 20) Minimum of (Column 16 - Column 17) and 54 cfs; daily totals are then limited to a maximum monthly amount of 150 acre-feet or amount determined less than that by LAWMA.
- 21) Minimum of (Column 16 - Column 17 - Column 20) and monthly rate defined in the Control Table for the Graham APOD wells.
- 22) Column 16 - Column 17 - Column 20 - Column 21

PRELIMINARY - PROVIDED SEPTEMBER 11, 2018

LAWMA'S REPLACEMENT SOURCES FROM LAMAR CANAL & GRANADA IRRIGATION COMPANY DITCH

Month: September

Table with columns for LAMAR / GIC SHARES DELIVERED, including sub-sections for Lamar Canal Diversions, West Farm, West Farm Gravel Pit, and Center Farm. It contains detailed flow data for various rules and stations over 31 days.

Summary table for Rule 10 return flow obligation above the Buffalo Canal river headgate, including monthly CU factor and CU credits (ac-ft).

Note: 1) All Values are demonstrative and not an actual representation of actual September 2018 accounting. 2) 15CW3067 Granada Winter Return Flows will be tracked on the previous year's monthly farm headgate diversions and delivered out of the monthly CU credits in April and/or May.

- Column Explanations: 1 Day of the current month of accounting. 2 Sum of Lamar Canal River headgate gage and Lamar Power Plant outflow gage obtained from CDWR data imported onto the Streamflows tab. 3 Lamar Canal Rotation status as determined by the Lamar Canal Board. 4 Column 2 - Sum (Columns 5-7)

Exhibit A

PRELIMINARY - PROVIDED SEPTEMBER 11, 2018

TABLE 10

LAWMA'S MONTHLY AND ANNUAL VOLUMETRIC LIMITS

Month: September

Year: 2018

Day (1)	March (2)	April (3)	May (4)	June (5)	July (6)	August (7)	September (8)	October (9)	November (10)	Annual Maximum Volumetric Limit (11)
02CW181 Highland Canal (River Headgate Diversions)										
Monthly Maximum Volumetric Limits	0	1,445	1,854	2,172	2,369	2,570	1,996	1,142	0	12,257
Diversions	0	1,445	957	116	342	1,276	627		0	4,764
										20 Year Annual Volumetric Limit
										136,120
										20-Year Annual Volumetric Limit / 20
										6,806
10CW85 Highland Canal (River Headgate Diversions)										
Monthly Maximum Volumetric Limits	0	71	91	107	116	126	98	56	0	602
Diversions	0	71	47	6	17	63	31		0	234
										20 Year Annual Volumetric Limit
										6,243
										20-Year Annual Volumetric Limit / 20
										312
Fort Lyon Canal Shares (Farm Headgate Deliveries)										
Monthly Maximum Volumetric Limits	1,597	2,156	2,868	3,561	3,854	3,909	2,588	2,095	1,652	20,029
Diversions	155	362	434	507	445	450	450			2,802
										10 Year Annual Volumetric Limit
										140,234
										10-Year Annual Volumetric Limit / 10
										14,023
02CW181 Keesee Ditch (River Headgate Diversions)										
Monthly Maximum Volumetric Limits	0	431	445	431	445	445	431	445	0	2,503
Diversions	0	0	397	402	344	402	402		0	1,946
										20 Year Annual Volumetric Limit
										37,282
										20-Year Annual Volumetric Limit / 20
										1,864
05CW52 Keesee Ditch (River Headgate Diversions)										
Monthly Maximum Volumetric Limits	0	431	445	431	445	445	431	445	0	2,503
Diversions	0	0	397	402	344	402	402		0	1,946
										20 Year Annual Volumetric Limit
										37,282
										20-Year Annual Volumetric Limit / 20
										1,864
02CW181 Fort Bent Canal (Farm Turnout Deliveries)										
Monthly Maximum Volumetric Limits	0	683	678	765	868	952	644	541	0	2,950
Diversions	0	82	79	98	126	57	57		0	500
										20 Year Annual Volumetric Limit
										46,506
										20-Year Annual Volumetric Limit / 20
										2,325
10CW85 Fort Bent Canal (Farm Turnout Deliveries)										
Monthly Maximum Volumetric Limits	0	55	54	61	69	76	51	43	0	235
Diversions	0	25	25	30	39	18	18		0	155
										20 Year Annual Volumetric Limit
										3,735
										20-Year Annual Volumetric Limit / 20
										187
T-1 Shares - Fort Bent Canal (Farm Turnout Deliveries)										
Monthly Maximum Volumetric Limits	0	105	104	118	134	147	99	83	0	454
Diversions	0	29	28	34	44	20	20		0	175
										20 Year Annual Volumetric Limit
										7,157
										20-Year Annual Volumetric Limit / 20
										358
02CW181 Lamar Canal (Farm Turnout Deliveries) shares through the West Farm, Center Farm, Granada West and Granada East augmentation stations										
Monthly Maximum Volumetric Limits	0	2,884	2,823	3,748	3,783	3,111	2,476	2,107	0	14,100
Diversions	0	1,312	1,105	1,654	1,576	1,164	909		0	7,720
										20 Year Annual Volumetric Limit
										200,280
										20-Year Annual Volumetric Limit / 20
										10,014
15CW3067 Lamar Canal (Farm Turnout Deliveries) shares through the West Farm, and Center Farm augmentation stations										
Monthly Maximum Volumetric Limits	0	340	333	442	446	367	292	249	0	1,959
Diversions	0	203	165	248	224	224	142		0	2,612
										64 Year Annual Volumetric Limit
										69,799
										64 Year Annual Volumetric Limit / 64
										1,091
15CW3067 GIC Ditch (Farm Turnout Deliveries) shares through the Granada West and Granada East augmentation stations										
Monthly Maximum Volumetric Limits	0	996	975	1,294	1,307	1,074	855	728	0	5,733
Diversions	0	593	484	725	655	655	352		0	755
										64 Year Annual Volumetric Limit
										204,300
										64-Year Annual Volumetric Limit / 64
										3,192
02CW181 X-Y Canal (River Headgate Diversions) 67 cfs										
Monthly Maximum Volumetric Limits	0	1,402	2,107	2,606	1,554	2,194	1,855	1,429	0	9,231
Diversions	0	1,129	1,834	461	486	486	486		0	4,881
										20 Year Annual Volumetric Limit
										108,227
										20-Year Annual Volumetric Limit / 20
										5,411
15CW3067 X-Y Canal (River Headgate Diversions) 2 cfs										
Monthly Maximum Volumetric Limits	0	50	63	77	71	70	55	48	0	329
Diversions	0	34	55	14	14	14	14		0	146
										44 Year Annual Volumetric Limit
										5,995
										44-Year Annual Volumetric Limit / 44
										136
02CW181 Manvel Canal (River Headgate Diversions)										
Monthly Maximum Volumetric Limits	0	150	150	150	150	150	150	150	0	750
Diversions	0	150	150	150	150	50	50		0	700

Note:

- a) Ft Bent water rights acquired by LAWMA will use the factors for each ditch in Case No. 02CW181 until water rights have been changed in water court.
- b) Fort Lyon Canal shares acquired in March 2017 will have 10-year volumetric limits pending water court approval.
- c) Long-term monthly volumetric limits for the Highland, Keesee, 15CW3067 Lamar, 15CW3067 GIC, and 15CW3067 are included in the integrated accounting.

Exhibit A

PRELIMINARY - PROVIDED SEPTEMBER 11, 2018
 TABLE 11
 LAWMA'S DAILY CONSUMPTIVE USE DELIVERIES
 (values in cfs unless otherwise noted)

Month: September

Year: 2018

Day (1)	Highland Canal		Keesee Ditch		Ft Bent Ditch			Lamar Canal							Manvel	X-Y Irrigating Ditch		Sisson	Stubbs			
	02CW181 (2)	10CW85 (3)	02CW181 (4)	05CW52 (5)	02CW181 (6)	10CW85 (7)	17CW3068 (8)	02CW181 WF (9)	15CW3067 WF (10)	15CW3067 WFGP (11)	02CW181 CF (12)	15CW3067 CF (13)	02CW181 GW (14)	15CW3067 GW (15)	02CW181 GE (16)	15CW3067 GE (17)	02CW181 (18)	02CW181 (19)	15CW3067 (20)	10CW85 (21)	02CW181 (22)	
1	14.20	0.70	4.39	4.39	4.64	1.15	1.63	5.20	0.32	2.00	10.03	0.00	0.00	2.58	0.00	14.70	42.14	1.34	0.74	0.74		
2	13.15	0.65	4.39	4.39	4.63	1.14	1.63	5.49	0.38	2.00	10.07	0.00	0.00	2.37	0.00	0.43	0.00	42.14	1.34	0.74	0.74	
3	12.49	0.61	4.39	4.39	4.65	1.15	1.63	5.15	0.33	2.00	10.11	0.00	0.00	2.39	0.00	0.56	0.00	42.14	1.34	0.74	0.74	
4	21.07	1.03	4.39	4.39	3.00	0.74	1.05	4.80	0.19	2.00	9.63	0.00	0.00	2.41	0.00	0.82	0.00	27.53	0.88	0.74	0.74	
5	22.88	1.12	4.39	4.39	0.08	0.02	0.03	4.91	0.12	2.00	7.59	0.00	0.00	1.90	0.00	0.46	0.00	0.00	0.00	0.74	0.74	
6	22.88	1.12	4.39	4.39	0.08	0.02	0.03	3.83	1.79	0.00	5.57	0.00	0.00	1.90	0.00	0.34	0.00	0.00	0.00	0.74	0.74	
7	22.88	1.12	4.39	4.39	0.00	0.00	0.00	4.02	1.88	0.00	6.73	0.00	0.00	1.93	0.00	0.70	0.00	0.00	0.00	0.74	0.74	
8	22.88	1.12	4.39	4.39	0.00	0.00	0.00	4.09	1.91	0.00	8.36	0.00	0.00	2.78	0.00	0.41	0.00	0.00	0.00	0.74	0.74	
9	22.88	1.12	4.39	4.39	0.00	0.00	0.00	4.19	1.95	0.00	8.50	0.00	0.00	3.59	0.00	0.47	0.00	0.00	0.00	0.74	0.74	
10	22.88	1.12	4.39	4.39	0.00	0.00	0.00	4.58	2.14	0.00	8.12	0.00	0.00	4.86	0.00	0.53	0.00	0.00	0.00	0.74	0.74	
11	18.97	0.93	4.39	4.39	0.00	0.00	0.00	4.78	2.23	0.00	7.41	0.00	0.00	3.70	0.00	0.40	0.00	0.00	0.00	0.74	0.74	
12	15.35	0.75	4.39	4.39	0.00	0.00	0.00	4.81	2.24	0.00	7.36	0.00	0.00	1.66	0.00	0.53	0.00	0.00	0.00	0.74	0.74	
13	12.96	0.64	4.39	4.39	0.00	0.00	0.00	4.79	2.23	0.00	7.37	0.00	0.00	1.58	0.00	0.96	0.00	0.00	0.00	0.74	0.74	
14	10.77	0.53	4.39	4.39	0.00	0.00	0.00	4.72	2.20	0.00	6.83	0.00	0.00	1.67	0.00	0.78	0.00	0.00	0.00	0.74	0.74	
15	9.21	0.45	4.39	4.39	0.00	0.00	0.00	4.72	2.20	0.00	7.25	0.00	0.00	1.45	0.00	0.26	0.00	0.00	0.00	0.74	0.74	
16	8.05	0.39	4.39	4.39	0.00	0.00	0.00	5.30	0.32	2.00	7.06	0.00	0.00	1.04	0.00	0.05	0.00	0.00	0.00	0.74	0.74	
17	6.87	0.34	4.39	4.39	0.00	0.00	0.00	4.27	1.99	0.00	6.88	0.00	0.00	0.91	0.00	0.18	0.00	0.00	0.00	0.74	0.74	
18	5.97	0.29	4.39	4.39	0.09	0.02	0.03	4.24	1.98	0.00	5.76	0.00	0.00	0.87	0.00	0.30	0.00	0.00	0.00	0.74	0.74	
19	5.06	0.25	4.39	4.39	0.22	0.05	0.08	4.01	1.87	0.00	5.17	0.00	0.00	0.74	0.00	0.53	0.00	0.00	0.00	0.74	0.74	
20	4.50	0.22	4.39	4.39	0.22	0.05	0.08	1.83	0.85	0.00	2.52	0.00	0.00	2.07	0.00	0.51	0.00	0.00	0.00	0.74	0.74	
21	3.56	0.18	4.39	4.39	0.22	0.05	0.08	1.20	0.56	0.00	2.00	0.00	0.00	1.84	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
22	2.68	0.13	4.39	4.39	0.21	0.05	0.07	1.84	0.86	0.00	3.01	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
23	2.26	0.11	4.39	4.39	0.21	0.05	0.07	1.99	0.93	0.00	3.24	0.00	0.00	4.60	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
24	1.97	0.10	4.39	4.39	0.22	0.05	0.08	1.89	0.88	0.00	2.65	0.00	0.00	4.21	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
25	1.72	0.08	4.39	4.39	0.22	0.05	0.08	1.92	0.90	0.00	3.04	0.00	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
26	1.54	0.08	4.39	4.39	0.21	0.05	0.07	1.90	0.89	0.00	3.24	0.00	0.00	3.11	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
27	1.50	0.07	4.39	4.39	0.20	0.05	0.07	1.49	0.69	0.00	4.65	0.00	0.00	3.17	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
28	1.38	0.07	4.39	4.39	0.00	0.00	0.00	2.77	1.29	0.00	4.52	0.00	0.00	3.17	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
29	1.33	0.07	4.39	4.39	0.00	0.00	0.00	3.04	1.42	0.00	4.38	0.00	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
30	1.21	0.06	4.39	4.39	0.00	0.00	0.00	3.08	1.44	0.00	5.56	0.00	0.00	2.83	0.00	0.00	0.00	0.00	0.00	0.74	0.74	
31																						
cfsd	315.04	15.46	131.74	131.60	19.08	4.71	6.71	110.83	39.00	12.00	184.61	0.00	0.00	73.16	0.00	9.72	14.70	153.96	4.90	22.18	22.18	
ac-ft	624.9	30.7	261.3	261.0	37.8	9.3	13.3	219.8	77.4	23.8	366.2	0.0	0.0	145.1	0.0	19.3	29.2	305.4	9.7	44.0	44.0	

Note:
 a) Columns 13 & 14 include a transit loss of 2.57% to the Arkansas River from the Granada West augmentation station.
 b) Columns 15 & 16 include a transit loss of 1.57% to the Arkansas River from the Granada East augmentation station.
 c) Winter Return Flows owed to the stateline for 15CW3067 GIC and XY are included as a portion of columns 15, 17, and 20

Exhibit A

TABLE 11 (continued)
LAWMA'S DAILY RETURN FLOWS FROM CONSUMPTIVE USE DELIVERIES
(values in cfs unless otherwise noted)

Day (1)	Highland Canal		Keesee Ditch		Ft Bent Ditch			Lamar Canal								Manvel	X-Y Irrigating Ditch		Sisson	Stubbs	
	02CW181 (2)	10CW85 (3)	02CW181 (4)	05CW52 (5)	02CW181 (6)	10CW85 (7)	17CW3068 (8)	02CW181 WF (9)	15CW3067 WF (10)	15CW3067 WFGP (11)	02CW181 CF (12)	15CW3067 CF (13)	02CW181 GW (14)	15CW3067 GW (15)	02CW181 GE (16)	15CW3067 GE (17)	02CW181 (18)	02CW181 (19)	15CW3067 (20)	10CW85 (21)	02CW181 (22)
1	4.57	0.21	2.36	2.36	2.37	1.04	0.83	3.72	0.13	0.81	7.18	0.00	0.00	2.88	0.00	0.54	10.51	24.86	0.66	0.39	0.39
2	4.24	0.20	2.36	2.36	2.36	1.04	0.83	3.92	0.15	0.81	7.20	0.00	0.00	2.65	0.00	0.48	0.00	24.86	0.66	0.39	0.39
3	4.02	0.19	2.36	2.36	2.37	1.04	0.83	3.68	0.13	0.81	7.23	0.00	0.00	2.67	0.00	0.61	0.00	24.86	0.66	0.39	0.39
4	6.78	0.31	2.36	2.36	1.53	0.67	0.54	3.43	0.08	0.81	6.89	0.00	0.00	2.70	0.00	0.90	0.00	16.24	0.43	0.39	0.39
5	7.37	0.34	2.36	2.36	0.04	0.02	0.01	3.51	0.05	0.81	5.43	0.00	0.00	2.12	0.00	0.51	0.00	0.00	0.00	0.39	0.39
6	7.37	0.34	2.36	2.36	0.04	0.02	0.01	2.74	0.72	0.00	3.99	0.00	0.00	2.12	0.00	0.38	0.00	0.00	0.00	0.39	0.39
7	7.37	0.34	2.36	2.36	0.00	0.00	0.00	2.87	0.76	0.00	4.82	0.00	0.00	2.15	0.00	0.77	0.00	0.00	0.00	0.39	0.39
8	7.37	0.34	2.36	2.36	0.00	0.00	0.00	2.93	0.77	0.00	5.98	0.00	0.00	3.10	0.00	0.46	0.00	0.00	0.00	0.39	0.39
9	7.37	0.34	2.36	2.36	0.00	0.00	0.00	3.00	0.79	0.00	6.08	0.00	0.00	4.01	0.00	0.52	0.00	0.00	0.00	0.39	0.39
10	7.37	0.34	2.36	2.36	0.00	0.00	0.00	3.27	0.86	0.00	5.81	0.00	0.00	5.42	0.00	0.59	0.00	0.00	0.00	0.39	0.39
11	6.11	0.28	2.36	2.36	0.00	0.00	0.00	3.42	0.90	0.00	5.30	0.00	0.00	4.13	0.00	0.44	0.00	0.00	0.00	0.39	0.39
12	4.94	0.23	2.36	2.36	0.00	0.00	0.00	3.44	0.91	0.00	5.27	0.00	0.00	1.86	0.00	0.59	0.00	0.00	0.00	0.39	0.39
13	4.17	0.19	2.36	2.36	0.00	0.00	0.00	3.42	0.90	0.00	5.27	0.00	0.00	1.77	0.00	1.07	0.00	0.00	0.00	0.39	0.39
14	3.47	0.16	2.36	2.36	0.00	0.00	0.00	3.38	0.89	0.00	4.89	0.00	0.00	1.86	0.00	0.86	0.00	0.00	0.00	0.39	0.39
15	2.96	0.14	2.36	2.36	0.00	0.00	0.00	3.37	0.89	0.00	5.18	0.00	0.00	1.62	0.00	0.28	0.00	0.00	0.00	0.39	0.39
16	2.59	0.12	2.36	2.36	0.00	0.00	0.00	3.79	0.13	0.81	5.05	0.00	0.00	1.17	0.00	0.06	0.00	0.00	0.00	0.39	0.39
17	2.21	0.10	2.36	2.36	0.00	0.00	0.00	3.05	0.81	0.00	4.92	0.00	0.00	1.02	0.00	0.20	0.00	0.00	0.00	0.39	0.39
18	1.92	0.09	2.36	2.36	0.05	0.02	0.02	3.03	0.80	0.00	4.12	0.00	0.00	0.97	0.00	0.33	0.00	0.00	0.00	0.39	0.39
19	1.63	0.08	2.36	2.36	0.11	0.05	0.04	2.87	0.76	0.00	3.70	0.00	0.00	0.83	0.00	0.59	0.00	0.00	0.00	0.39	0.39
20	1.45	0.07	2.36	2.36	0.11	0.05	0.04	1.31	0.34	0.00	1.80	0.00	0.00	2.31	0.00	0.56	0.00	0.00	0.00	0.39	0.39
21	1.15	0.05	2.36	2.36	0.11	0.05	0.04	0.86	0.23	0.00	1.43	0.00	0.00	2.05	0.00	0.00	0.00	0.00	0.00	0.39	0.39
22	0.86	0.04	2.36	2.36	0.11	0.05	0.04	1.31	0.35	0.00	2.15	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.39	0.39
23	0.73	0.03	2.36	2.36	0.11	0.05	0.04	1.43	0.38	0.00	2.32	0.00	0.00	5.14	0.00	0.00	0.00	0.00	0.00	0.39	0.39
24	0.64	0.03	2.36	2.36	0.11	0.05	0.04	1.35	0.36	0.00	1.89	0.00	0.00	4.70	0.00	0.00	0.00	0.00	0.00	0.39	0.39
25	0.55	0.03	2.36	2.36	0.11	0.05	0.04	1.37	0.36	0.00	2.18	0.00	0.00	3.42	0.00	0.00	0.00	0.00	0.00	0.39	0.39
26	0.50	0.02	2.36	2.36	0.11	0.05	0.04	1.36	0.36	0.00	2.31	0.00	0.00	3.47	0.00	0.00	0.00	0.00	0.00	0.39	0.39
27	0.48	0.02	2.36	2.36	0.10	0.04	0.04	1.06	0.28	0.00	3.33	0.00	0.00	3.54	0.00	0.00	0.00	0.00	0.00	0.39	0.39
28	0.45	0.02	2.36	2.36	0.00	0.00	0.00	1.98	0.52	0.00	3.24	0.00	0.00	3.54	0.00	0.00	0.00	0.00	0.00	0.39	0.39
29	0.43	0.02	2.36	2.36	0.00	0.00	0.00	2.17	0.57	0.00	3.13	0.00	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.39	0.39
30	0.39	0.02	2.36	2.36	0.00	0.00	0.00	2.20	0.58	0.00	3.97	0.00	0.00	3.16	0.00	0.00	0.00	0.00	0.00	0.39	0.39
31																					
cfsd	101.44	4.70	70.88	70.88	9.74	4.28	3.43	79.27	15.78	4.85	132.05	0.00	0.00	81.88	0.00	10.74	10.51	90.81	2.40	11.63	11.63
ac-ft	201.2	9.3	140.6	140.6	19.3	8.5	6.8	157.2	31.3	9.6	261.9	0.0	0.0	162.0	0.0	21.3	20.9	180.1	4.8	23.1	23.1

- Note:
- a) Totals in Columns 13 & 15 accounts for 9.3% delivery through augmentation station for winter return flow deliveries in April and May as part of Case No. 02CW181.
 - b) Totals in Columns 14 & 16 accounts for the winter return flow deliveries as required for the GIC shares in Case No. 15CW3067 in April and May.
 - c) Location of historical Return Flows delivered in columns 10, 11 (see Table 5 Column 19), and 13 for 15CW3067 are owed to HI model reaches 15 and 16.
 - d) Location of historical Return Flows delivered in columns 15 and 17 for 15CW3067 are owed to HI model reach 17.
 - e) Location of historical Return Flows delivered in column 20 for 15CW3067 are owed to HI model reach 17.

Exhibit A

PRELIMINARY - PROVIDED SEPTEMBER 11, 2018
 TABLE 12
 LAWMA's WATER REPLACEMENT SOURCES
 (Values in Acre-Feet)

Month: September

Plan Year: 2018

Row	Source	Reach 7	Reach 8	Reach 9	Reach 10	Reach 11	Reach 12	Reach 13	Reach 14	Reach 15	Reach 16	Reach 17	Reach 18	Total
1	Fry-Ark Project Water	6.37	7.92	17.00	9.14	10.57	5.55	7.77	5.91	0.00	0.00	0.00	0.00	70.23
4	Misc below JMR	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
5	02CW181 Highland CU Direct Flow to In-State	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
6	10CW85 Highland CU Direct Flow to In-State	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
7	Highland unconsumed TL Credits	0.00	0.00	0.00	70.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.16
8	Offset Account TL Credits on CU Deliveries to Stateline	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
9	02CW181 Keesee Direct Flow CU	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
10	05CW52 Keesee Direct Flow CU	0.00	0.00	0.00	0.00	261.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	261.00
11	02CW181 Fort Bent Ditch Shares @ Aug Station	0.00	0.00	0.00	0.00	0.00	0.00	37.84	0.00	0.00	0.00	0.00	0.00	37.84
12	10CW85 Fort Bent Ditch Shares @ Aug Station	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.00	0.00	0.00	0.00	0.00	9.33
14	02CW181 Lamar Canal Shares at Lamar Canal West Farm Turnout	0.00	0.00	0.00	0.00	0.00	0.00	0.00	219.85	0.00	0.00	0.00	0.00	219.85
15	15CW3067 Lamar Canal Shares at Lamar Canal West Farm Turnout	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.39	0.00	0.00	0.00	0.00	77.39
16	02CW181 Lamar Canal Shares at Lamar Canal Center Farm Turnout	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	366.18	0.00	0.00	0.00	366.18
17	15CW3067 Lamar Canal Shares at Lamar Canal Center Farm Turnout	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
18	02CW181 Lamar Canal Shares at GIC Granada West Aug Station (includes TL to Arkansas River)	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
19	15CW3067 Lamar Canal Shares at GIC Granada West Aug Station (includes TL to Arkansas River)	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
20	02CW181 Lamar Canal Shares at GIC Granada East Aug Station (includes TL to Arkansas River)	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
21	15CW3067 Lamar Canal Shares at GIC Granada East Aug Station (includes TL to Arkansas River)	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
22	Manvel Account Water at West Farm Turnout	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
23	02CW181 Manvel Ditch Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.20	0.00	0.00	0.00	29.20
24	02CW181 X-Y Ditch Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	305.40	0.00	0.00	305.40
25	15CW3067 X-Y Ditch Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70	0.00	0.00	0.00	9.70
26	02CW181 Stubbs Ditch Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.00	44.00
27	10CW85 Sisson Ditch Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.00	44.00
28	Offset Account Stateline Credit	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
29	Release from Meredith	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
30	Release of Consumable Water from West Farm Gravel Pit	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
31	Excess City of Lamar Credits	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
32	Sub-Total	0.00	15.04	0.00	77.75	281.42	32.17	67.99	297.24	395.38	315.10	0.00	88.00	1,570.10
SECWCD Structures														
33	Portion for Augmentation Plan / SWSP	2.32	6.37	32.62	21.12	0.74	0.00	1.05	17.56	0.00	0.00	0.00	0.00	81.78
34	Portion for Rule 14 Plan	4.05	1.55	-15.62	-11.98	9.83	5.55	6.72	-11.65	0.00	0.00	0.00	0.00	-11.55
Non-SECWCD Structures														
35	Portion for Augmentation Plan / SWSP	0.00	0.00	0.80	0.00	2.21	410.38	214.78	44.21	71.21	64.59	88.30	669.48	1,565.98
36	Portion for Rule 14 Plan	0.00	15.04	-0.80	77.75	279.21	-378.21	-146.79	253.03	324.17	250.51	-88.30	-581.48	4.12

Exhibit A

Table 13
Arkansas River H-I Model Reaches (Approximate Mileage Distance)

Reach 7		Upper Terminus			131 mile		Lower Terminus		108 mi	
Date	locationWdid	locationStructure	locationWdid	StreamMile	priorityWdid	priorityStructure	priorityAdminNo	priorityDate	Percent call	
9/1/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/2/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/3/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/4/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/5/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/6/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/7/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/8/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/9/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/10/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/11/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/12/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/13/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/14/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/15/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/16/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/17/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/18/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/19/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/20/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/21/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/22/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/23/2018	6700607	AMITY CANAL		48.6	6700607	AMITY CANAL	13566.00000	1887-02-21	100	
9/24/2018	6700607	AMITY CANAL / LAMAR CANAL		48.6 / 40.3	6700607	AMITY CANAL / LAMAR CANAL	13566.00000 / 13457.00000	1887-02-21 / 1886-11-04	100	
9/25/2018	6700614	LAMAR CANAL		40.3	6700614	LAMAR CANAL	13457.00000	1886-11-04	100	
9/26/2018	6700614	LAMAR CANAL		40.3	6700614	LAMAR CANAL	13457.00000	1886-11-04	100	
9/27/2018	6700614	LAMAR CANAL		40.3	6700614	LAMAR CANAL	13457.00000	1886-11-04	100	
9/28/2018	6700614	LAMAR CANAL		40.3	6700614	LAMAR CANAL	13457.00000	1886-11-04	100	
9/29/2018	6700614	LAMAR CANAL		40.3	6700614	LAMAR CANAL	13457.00000	1886-11-04	100	
9/30/2018	6700614	LAMAR CANAL		40.3	6700614	LAMAR CANAL	13457.00000	1886-11-04	100	

Note: Similar format is used for Reaches 8 through 18.

Exhibit A

PRELIMINARY - PROVIDED SEPTEMBER 11, 2018
CONTROL DATA FOR CALCULATING LAWMA CREDITS FOR SELECTED WATER SOURCES

Parameters for Table 1

Projected diversion rates:			
Month	X-Y	Manvel	Graham
April	69.0	54.0	16.5
May	69.0	54.0	18.2
June	69.0	54.0	16.9
July	69.0	54.0	19.7
August	69.0	54.0	15.0
September	69.0	54.0	12.4
October	69.0	54.0	11.7
Nov - Mar	0.0	0.0	0.0

(PARAMETERS WHICH ARE PRELIMINARY ARE IN RED)

Parameters for Table 5

Lamar Canals Shares

Owner	Case	Aug Station	Shares
City of Lamar	02CW181	Center Farm	50
DOW	02CW181	Center Farm	4297
LAWMA Lamar	15CW3067	West Farm / West Farm GP	897
Lamar Rule 10		WF,CF,GE,GW	
Other			0
LAWMA GIC	15CW3067	Granada East / West	2625.51
Colo. Beef	02CW181	West Farm	2297.09
Total			10166.60

Varies based on next months return flow obligation

750.5 GIC Shares (Lamar Shares Equivalent = GIC shares x 10.600 / 3.030)

Canal Rotation No

LAWMA

Parameters for Table 6

Fort Bent Ditch Shares through LAWMA Augmentation Station	
LAWMA	02CW181 462
LAWMA	10CW85 144
LAWMA	T-1 Trade 162.5
City of Lamar Return Flow Obligation	1064.2
City of Lamar Augmentation	0
Total	1832.7
LAWMA only Ft Bent Shares	768.5

City of Lamar Idler Shares % for RFO:	April	May	June	July	August	September	October	November	December	January	February	March
	1880.6	24.9%	26.0%	26.0%	25.4%	29.5%	40.0%	53.5%	0.0%	0.0%	0.0%	0.0%

City of Lamar RFO	752.2											
City of Lamar Augmentation	0											
Days in Month	30	31	30	31	31	30	31	30	31	31	28	31

Decreed Consumptive Use Factors

Case No.	Ditch	April	May	June	July	August	September	October	November	December	January	February	March
02CW181	Fort Bent	66.2%	66.2%	66.2%	66.2%	66.2%	66.2%	66.2%	0.0%	0.0%	0.0%	0.0%	0.0%
02CW181	Lamar	58.3%	58.3%	58.3%	58.3%	58.3%	58.3%	58.3%	0.0%	0.0%	0.0%	0.0%	0.0%
02CW181	Manvel	58.3%	58.3%	58.3%	58.3%	58.3%	58.3%	58.3%	0.0%	0.0%	0.0%	0.0%	0.0%
02CW181	X-Y	62.9%	62.9%	62.9%	62.9%	62.9%	62.9%	62.9%	0.0%	0.0%	0.0%	0.0%	0.0%
02CW181	Stubbs	65.6%	65.6%	65.6%	65.6%	65.6%	65.6%	65.6%	0.0%	0.0%	0.0%	0.0%	0.0%
10CW85	Fort Bent	65.2%	62.2%	64.8%	65.0%	61.6%	52.4%	44.2%	0.0%	0.0%	0.0%	0.0%	0.0%
10CW85	Sisson	65.6%	65.6%	65.6%	65.6%	65.6%	65.6%	65.6%	0.0%	0.0%	0.0%	0.0%	0.0%
02CW181	Keesee	75.0%	77.0%	73.0%	74.0%	70.0%	65.0%	57.5%	0.0%	0.0%	0.0%	0.0%	0.0%
05CW52	Keesee	75.0%	77.0%	73.0%	74.0%	70.0%	65.0%	57.5%	0.0%	0.0%	0.0%	0.0%	0.0%
02CW181	Highland	61.6%	67.6%	75.2%	79.1%	80.7%	67.8%	35.6%	0.0%	0.0%	0.0%	0.0%	0.0%
10CW85	Highland	62.1%	68.3%	76.3%	80.4%	81.9%	69.6%	38.7%	0.0%	0.0%	0.0%	0.0%	0.0%
15CW3067	Lamar	79.9%	80.2%	81.4%	80.4%	76.5%	71.2%	65.9%	0.0%	0.0%	0.0%	0.0%	0.0%
15CW3067	GIC	63.0%	63.8%	67.3%	66.1%	59.0%	47.9%	34.2%	0.0%	0.0%	0.0%	0.0%	0.0%
15CW3067	XY	72.6%	74.5%	75.8%	73.0%	74.0%	67.1%	59.2%	0.0%	0.0%	0.0%	0.0%	0.0%

09/01/2018
10/1/2018

	ARKLASCO	PURLASCO	ARKJMRCO	ARKLAMC	ARKGRA	FRODITK	ARKCOO	PURHILCO	HILCANCO	FLYCANCO	FTBDITCO	AMYCANCO	FTBAUGCO	LAMCANCO	HYDDITCO	LLPRETCO
	USGS	USGS	USGS	O	CO	S	KS	CDWR	CDWR	CDWR	CDWR	CDWR	CDWR	CDWR	CDWR	CDWR
	07124000	07128500	07130500	07133000	07134180	07137000	07137500									
	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge	Discharge
9/1/2018	27.40	22.50	536.00	121.00	128.00	28.60	168.00	17.48	0.00	113.88	52.86	238.48	11.67	106.27	10.97	
9/2/2018	27.40	20.00	535.00	121.00	129.00	29.50	174.00	14.92	0.00	112.75	52.90	237.15	11.63	106.44	10.75	
9/3/2018	32.00	19.10	536.00	122.00	133.00	30.90	211.00	13.81	0.00	123.80	52.90	238.71	11.68	107.11	10.74	
9/4/2018	31.50	19.40	467.00	115.00	139.00	21.90	303.00	13.10	0.00	122.02	52.77	235.54	7.53	101.86	11.38	
9/5/2018	29.80	17.60	414.00	36.60	123.00	14.50	286.00	22.07	0.00	147.04	52.47	231.67	0.19	96.41	12.48	
9/6/2018	30.50	43.90	425.00	26.90	95.20	0.00	257.00	48.59	0.00	142.70	52.10	233.96	0.19	86.45	16.08	
9/7/2018	31.30	98.50	435.00	24.50	90.80	0.00	244.00	185.30	0.00	161.40	48.44	234.38	0.36	97.91	21.95	
9/8/2018	48.80	142.00	433.00	17.80	85.60	0.00	232.00	147.11	0.00	166.20	43.90	234.98	5.21	105.55	20.02	
9/9/2018	96.90	62.20	433.00	16.70	82.80	0.00	222.00	59.10	0.00	166.01	45.09	233.63	7.14	107.83	16.37	
9/10/2018	51.90	47.60	426.00	20.50	79.00	0.00	221.00	34.35	0.00	166.33	40.63	232.88	5.59	108.39	14.34	
9/11/2018	42.60	29.20	421.00	20.90	76.90	0.00	218.00	25.65	0.00	154.02	34.00	232.77	0.84	103.75	16.23	
9/12/2018	30.60	23.60	421.00	19.90	75.50	0.00	208.00	19.87	0.00	143.30	33.96	232.40	0.65	105.69	13.82	
9/13/2018	27.80	21.70	417.00	19.50	72.00	0.00	192.00	16.08	0.00	126.11	33.98	231.75	0.62	107.32	10.54	
9/14/2018	26.10	16.70	421.00	18.60	70.00	0.00	177.00	13.58	0.00	139.06	33.99	234.46	0.60	99.51	10.40	
9/15/2018	23.80	14.00	425.00	17.10	66.70	0.00	175.00	11.26	0.00	128.38	33.96	233.02	0.62	106.58	10.54	
9/16/2018	23.70	12.10	424.00	16.30	64.80	0.00	172.00	9.66	0.00	127.38	34.00	233.44	0.55	105.07	10.95	
9/17/2018	22.70	11.00	421.00	16.40	59.50	0.00	155.00	8.44	0.00	120.75	34.01	237.52	0.55	105.47	10.98	
9/18/2018	22.50	9.65	419.00	16.00	55.00	0.00	147.00	7.21	0.00	112.96	35.88	257.27	0.55	85.23	10.77	
9/19/2018	22.00	8.17	353.00	15.50	52.80	0.00	146.00	6.26	0.00	119.04	38.11	249.32	0.55	78.65	11.57	
9/20/2018	22.30	7.49	371.00	15.50	49.20	0.00	150.00	5.31	0.00	138.64	38.10	233.30	0.55	49.11	11.16	
9/21/2018	22.30	6.85	410.00	15.60	43.90	0.00	147.00	4.72	0.00	152.76	38.10	271.54	0.55	50.99	11.57	
9/22/2018	31.20	6.02	414.00	16.20	41.40	0.00	143.00	3.74	0.00	158.44	38.10	267.19	0.52	61.44	11.98	
9/23/2018	33.80	5.15	412.00	16.40	42.60	0.00	152.00	2.81	0.00	159.98	38.10	270.56	0.52	62.62	12.34	
9/24/2018	24.40	4.29	411.00	15.30	40.70	0.00	150.00	2.37	0.00	159.05	38.10	271.40	0.55	57.52	11.67	
9/25/2018	24.20	3.72	412.00	16.20	38.20	0.00	147.00	2.07	0.00	161.42	38.10	269.68	0.55	59.64	11.43	
9/26/2018	24.60	3.34	339.00	16.80	38.10	0.00	147.00	1.80	0.00	162.06	38.10	241.59	0.53	60.21	11.69	
9/27/2018	24.20	3.31	285.00	28.50	40.40	0.00	141.00	1.62	0.00	176.30	38.10	140.14	0.49	73.32	12.77	
9/28/2018	22.90	3.41	145.00	17.60	42.60	0.00	138.00	1.57	0.00	184.44	38.10	108.79	0.49	74.16	12.76	
9/29/2018	26.00	3.47	70.40	26.80	44.50	0.00	142.00	1.45	0.00	190.82	37.85	0.01	8.52	84.74	11.54	
9/30/2018	23.40	4.40	69.60	15.10	43.80	0.00	141.00	1.41	0.00	183.28	37.44	0.00	16.37	76.11	10.81	
10/1/2018	24.20	4.46	69.40	14.80	40.80	0.00	141.00									
	27.4	8.92	495	118	128	28.6	165.00	17.5	0	114	52.9	238	11.7	106	11	
												6567.503333				
												13026.6				

Attachment to Order 10/1/2018

Exhibit A

Table 13
SUMMARY OF LAWMA's 15CW3067 LAMAR CANAL WATER RIGHTS LIMITATIONS
 (values in acre-feet unless noted)

Year	Lamar			Consumptive Use			April			May			June		
	Max Annual FHG Delivery		Max Cum. 64 yr Water Del	Max 1st Year CU		Max 64 yr CU Credits	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del
	1,959		69,799	1458.0		54,724	340		3,486	333		4,204	442		5,189
	Average Annual Del			Average Annual CU			Avg Monthly Del			Avg Monthly Del			Avg Monthly Del		
	FHG Del	Proj. FHG Del	Cumulative Water Del for 64 years	CU Del	Proj. CU Del	Cumulative CU Del for 64 years	FHG Delivery	Proj. FHG Del	Cum Water Del for 20 years	FHG Delivery	Proj. FHG Del	Cum Water Del for 20 years	FHG Delivery	Proj. FHG Del	Cum Water Del for 20 years
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2019	1,959		69,799	1,458		54,724	340		3,486	333		4,204	442		5,189
2020		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2021		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2022		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2023		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2024		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2025		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2026		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2027		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2028		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2029		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2030		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2031		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2032		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2033		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2034		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2035		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2036		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2037		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2038		1,077	69,799		845	54,724		165.6	3,486		203.7	4,204		249.8	5,189
2039		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2040		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2041		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2042		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2043		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2044		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2045		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2046		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2047		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2048		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2049		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2050		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2051		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2052		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2053		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2054		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2055		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2056		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2057		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2058		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2059		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2060		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2061		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2062		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2063		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2064		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2065		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2066		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2067		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2068		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2069		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2070		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2071		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2072		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2073		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2074		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2075		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2076		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2077		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2078		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2079		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2080		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2081		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
2082		1,077	69,799		845	54,724		165.6	3,312		203.7	4,075		249.8	4,997
Average	1,959	1,077		1,458	845		340	166		333	204		442	250	

Note: 2019 Annual and Monthly Data is the maximum allowed in the first year.

Exhibit A

Table 13 (continued)
 SUMMARY OF LAWMA's 15CW3067 LAMAR CANAL WATER RIGHTS LIMITATIONS
 (values in acre-feet unless noted)

Year	July			August			September			October		
	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del
	446		5,647	367		4,337	292		3,806	249		2,981
	Avg Monthly Del		Cum Water Del for 20 years	Avg Monthly Del		Cum Water Del for 20 years	Avg Monthly Del		Cum Water Del for 20 years	Avg Monthly Del		Cum Water Del for 20 years
(1)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
2019	446		5,647	367		4,337	292		3,806	249		2,981
2020		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2021		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2022		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2023		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2024		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2025		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2026		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2027		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2028		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2029		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2030		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2031		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2032		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2033		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2034		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2035		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2036		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2037		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2038		273.7	5,647		208.9	4,337		184.9	3,806		143.8	2,981
2039		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2040		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2041		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2042		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2043		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2044		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2045		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2046		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2047		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2048		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2049		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2050		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2051		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2052		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2053		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2054		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2055		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2056		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2057		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2058		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2059		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2060		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2061		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2062		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2063		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2064		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2065		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2066		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2067		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2068		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2069		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2070		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2071		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2072		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2073		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2074		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2075		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2076		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2077		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2078		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2079		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2080		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2081		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
2082		273.7	5,475		208.9	4,179		184.9	3,699		143.8	2,876
Average	446	274		367	209		292	185		249	144	

Exhibit A

Table 14
SUMMARY OF LAWMA's 15CW3067 GIC DITCH WATER RIGHTS LIMITATIONS
(values in acre-feet unless noted)

Year	Lamar			Consumptive Use			April			May			June		
	Max Annual FHG Delivery		Max Cum. 64 yr Water Del	Max 1st Year CU		Max 64 yr CU Credits	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del	Max Monthly FHG Delivery		Max Cum 20 yr FHG Del
	5,733		204,300	2092.2		98,802	996		10,203	975		12,306	1,294		15,187
	Average Annual Del		3,192	Average Annual CU		1,544	Avg Monthly Del		510	Avg Monthly Del		615	Avg Monthly Del		759
	FHG Del	Proj. FHG Del	Cumulative Water Del for 64 years	CU Del	Proj. CU Del	Cumulative CU Del for 64 years	FHG Delivery	Proj. FHG Del	Cum Water Del for 20 years	FHG Delivery	Proj. FHG Del	Cum Water Del for 20 years	FHG Delivery	Proj. FHG Del	Cum Water Del for 20 years
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2019	5,733		204,300	2,092		98,802	996		10,203	975		12,306	1,294		15,187
2020		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2021		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2022		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2023		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2024		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2025		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2026		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2027		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2028		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2029		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2030		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2031		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2032		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2033		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2034		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2035		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2036		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2037		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2038		3,152	204,300		1,535	98,802		484.6	10,203		596.4	12,306		731.2	15,187
2039		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2040		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2041		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2042		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2043		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2044		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2045		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2046		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2047		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2048		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2049		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2050		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2051		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2052		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2053		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2054		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2055		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2056		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2057		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2058		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2059		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2060		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2061		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2062		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2063		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2064		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2065		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2066		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2067		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2068		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2069		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2070		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2071		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2072		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2073		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2074		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2075		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2076		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2077		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2078		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2079		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2080		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2081		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
2082		3,152	204,300		1,535	98,802		484.6	9,692		596.4	11,927		731.2	14,624
Average	5,733	3,152		2,092	1,535		996	485		975	596		1,294	731	

Note: 2019 Annual and Monthly Data is the maximum allowed in the first year.

Exhibit A

Table 14 (continued)
SUMMARY OF LAWMA's 15CW3067 GIC DITCH WATER RIGHTS LIMITATIONS
 (values in acre-feet unless noted)

Year (1)	July			August			September			October		
	Max Monthly FHG Delivery 1,307		Max Cum 20 yr FHG Del 16,528	Max Monthly FHG Delivery 1,074		Max Cum 20 yr FHG Del 12,696	Max Monthly FHG Delivery 855		Max Cum 20 yr FHG Del 11,139	Max Monthly FHG Delivery 728		Max Cum 20 yr FHG Del 8,726
	Avg Monthly Del		826	Avg Monthly Del		635	Avg Monthly Del		557	Avg Monthly Del		436
	FHG Delivery (17)	Proj. FHG Del (18)	Cum Water Del for 20 years (19)	FHG Delivery (20)	Proj. FHG Del (21)	Cum Water Del for 20 years (22)	FHG Delivery (23)	Proj. FHG Del (24)	Cum Water Del for 20 years (25)	FHG Delivery (26)	Proj. FHG Del (27)	Cum Water Del for 20 years (28)
2019	1,307		16,528	1,074		12,696	855		11,139			8,726
2020		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2021		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2022		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2023		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2024		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2025		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2026		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2027		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2028		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2029		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2030		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2031		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2032		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2033		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2034		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2035		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2036		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2037		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2038		801.1	16,528		611.7	12,696		541.3	11,139		420.9	8,726
2039		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2040		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2041		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2042		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2043		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2044		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2045		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2046		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2047		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2048		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2049		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2050		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2051		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2052		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2053		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2054		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2055		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2056		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2057		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2058		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2059		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2060		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2061		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2062		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2063		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2064		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2065		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2066		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2067		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2068		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2069		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2070		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2071		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2072		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2073		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2074		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2075		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2076		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2077		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2078		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2079		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2080		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2081		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
2082		801.1	16,022		611.7	12,234		541.3	10,825		420.9	8,419
Average	1,307	801		1,074	612		855	541		728	421	

Exhibit A

Table 17
SUMMARY OF LAWMA's 15CW3067 X-Y IRRIGATING DITCH WATER RIGHTS LIMITATIONS
 (values in acre-feet unless noted)

Year	X-Y		Consumptive Use				Maximum Monthly River Headgate Delivery						
	Max Annual rhg Delivery	Max Cum. 44 yr Water Del	Max 1st Year CU		Max 44 yr CU Credits	April	May	June	July	August	September	October	
	329	5,995	213.6		3,946	50	63	77	71	70	55	48	
	Average Annual Del	94	Average Annual CU		62								
rhg Del	Proj. rhg Del	Cumulative Water Del for 64 years	CU Del	Proj. CU Del	Cumulative CU Del for 64 years								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
2019	329		5,995	214		3,946							
2020		132	5,995		87	3,946							
2021		132	5,995		87	3,946							
2022		132	5,995		87	3,946							
2023		132	5,995		87	3,946							
2024		132	5,995		87	3,946							
2025		132	5,995		87	3,946							
2026		132	5,995		87	3,946							
2027		132	5,995		87	3,946							
2028		132	5,995		87	3,946							
2029		132	5,995		87	3,946							
2030		132	5,995		87	3,946							
2031		132	5,995		87	3,946							
2032		132	5,995		87	3,946							
2033		132	5,995		87	3,946							
2034		132	5,995		87	3,946							
2035		132	5,995		87	3,946							
2036		132	5,995		87	3,946							
2037		132	5,995		87	3,946							
2038		132	5,995		87	3,946							
2039		132	5,995		87	3,946							
2040		132	5,995		87	3,946							
2041		132	5,995		87	3,946							
2042		132	5,995		87	3,946							
2043		132	5,995		87	3,946							
2044		132	5,995		87	3,946							
2045		132	5,995		87	3,946							
2046		132	5,995		87	3,946							
2047		132	5,995		87	3,946							
2048		132	5,995		87	3,946							
2049		132	5,995		87	3,946							
2050		132	5,995		87	3,946							
2051		132	5,995		87	3,946							
2052		132	5,995		87	3,946							
2053		132	5,995		87	3,946							
2054		132	5,995		87	3,946							
2055		132	5,995		87	3,946							
2056		132	5,995		87	3,946							
2057		132	5,995		87	3,946							
2058		132	5,995		87	3,946							
2059		132	5,995		87	3,946							
2060		132	5,995		87	3,946							
2061		132	5,995		87	3,946							
2062		132	5,995		87	3,946							
Average	329	132		214	87		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Note: 2019 Annual is the maximum allowed in the first year.