



**COLORADO**  
Division of Water Resources  
Department of Natural Resources

April 30, 2025

Amber Pacheco, Deputy General Manager  
Rio Grande Water Conservation District  
8805 Independence Way  
Alamosa, CO 81101

**RE: 2025 ANNUAL REPLACEMENT PLAN APPROVAL: SPECIAL  
IMPROVEMENT SUBDISTRICT NO. 1 OF THE RIO GRANDE  
WATER CONSERVATION DISTRICT**

Dear Ms. Pacheco:

Thank you for your April 15, 2025 submission of the Special Improvement District No. 1's proposed Annual Replacement Plan (ARP) for the 2025 Plan Year (**May 1, 2025 through April 30, 2026**).

My staff and I have reviewed the proposed ARP and its appendices, and it is hereby approved. A copy of this approval will be available on the DWR website at:

<https://dwr.colorado.gov/division-offices/division-3-office>

All information and data related to this approved ARP will be available on our website.

Enclosed, please find my approval of the 2025 ARP.

Very sincerely,

Jason T. Ullmann, P.E.  
State Engineer/Director  
Division of Water Resources

cc: Division 3

Delivered electronically: no hardcopy to follow



# Subdistrict No. 1 ARP Approval: Plan Year 2025

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## Review, Findings, and Approval of Subdistrict No. 1's 2025 Annual Replacement Plan

### **Background**

Special Improvement District No. 1 (“Subdistrict”), a political subdistrict of the Rio Grande Water Conservation District (“RGWCD”), timely submitted its proposed Annual Replacement Plan (“ARP”) pursuant to its Second Amended Plan of Water Management as amended on June 6, 2017 and approved by the State Engineer on October 16, 2017 (“Second Amended PWM”), which revised the Amended Plan of Water Management (“Amended PWM”) decreed by the Division No. 3 Water Court in Case Nos. 2006CV64 and 2007CW52<sup>1</sup> (“May 2010 Decree”) and upheld by the Colorado Supreme Court in Case No. 10SA224.<sup>2</sup>

The 2025 Plan Year ARP and its appendices were available for download through a link on the RGWCD website. The ARP, its appendices, and resolutions were filed with the Court and with the State and Division Engineers on April 15, 2025. Copies of the ARP were made available for viewing at the State and Division Engineers’ offices. This letter will be posted on DWR’s website. My staff and I have conducted this review of the ARP and comments thereon in accordance with the operational timelines specified in the May 2010 Decree and contained in Appendix 5 of the Second Amended PWM.

### **DWR Review**

As set forth in the May 2010 Decree, I must determine whether the ARP presents “sufficient evidence and engineering analysis to predict where and when Injurious Stream Depletions will occur and how the Subdistrict will replace those Injurious Stream Depletions to avoid injury to senior surface water rights” (May 27, 2010 Decree, Term and Condition #2). Also, “[t]he Annual Replacement Plan ...shall identify the sources, availability and amounts of replacement water the Subdistrict will use to remedy Injurious Stream Depletions during the coming year and shall demonstrate the sufficiency of such water to remedy such Injurious Stream Depletions” (May 2010 Decree, Term and Condition 6). Finally, I must review the ARP pursuant to the statutory mandates, constitutional requirements, Rules and Regulations<sup>3</sup> adopted in Division No. 3, and any letters, comments, or other objections submitted by water users regarding the adequacy of the ARP. No letters, comments, or other objections to the 2025 ARP were received.

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<sup>1</sup> *In the matter of the Rio Grande Water Conservation District*, Findings of Fact, Conclusions of Law, Judgment and Decree, Case Nos. 06CV64 and 07CW52, District Court, Water Division No. 3, Colorado (May 27, 2010).

<sup>2</sup> *San Antonio, Los Pinos and Conejos River Acequia Preservation Ass'n v. Special Improvement Dist. No. 1 of Rio Grande Water Conservation Dist.*, 270 P.3d 927 (Colo. 2011).

<sup>3</sup> *The Rules Governing the Withdrawal of Groundwater in Water Division No. 3 (the Rio Grande Basin) and Establishing Criteria for the Beginning and End of the Irrigation Season in Water Division No. 3 for all Irrigation Water Rights*, Case 2015CW3024, (“Rules”) were approved as promulgated in the March 15, 2019 ruling of the Division No. 3 Water Court.

## Subdistrict No. 1 ARP Approval: Plan Year 2025

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With the foregoing in mind, I turn to a review of the ARP. It would be unwieldy to include in my review every detail of the thorough ARP, so for the purpose of this letter, I incorporate it and its supplements by reference.

### **11.1.1 Database of All Wells to be Covered by the ARP**

#### ***Structure Identification Number (WDID) (Section 1 of 11.1.1 of the ARP)***

A comprehensive list of wells included in the ARP is necessary in order to allow DWR to verify which wells are authorized to operate in accordance with the ARP. To that end, the Subdistrict submitted the most current tabulation of the structure identification number (WDID) of each well included in the Subdistrict (see Appendix A of the ARP). The Subdistrict also supplied a spreadsheet to DWR of the list of Subdistrict Wells as a supplement to the 2025 ARP. Appendix A lists 3,617 wells. The Subdistrict submitted a separate letter requesting to include in the 2025 ARP WDID 2706366 as a replacement well for an existing Subdistrict well, WDID 2705405. A copy of the letter is included as an exhibit. The total number of wells is 3,618.

The Subdistrict added 6 new WDIDs in the 2025 ARP by contract or other mechanism, including the well mentioned in the previous paragraph. The Subdistrict included WDID 2014566 because the historical pumping was transferred from an existing Subdistrict well, WDID 2008579, to correct the structure identification. Three wells for commercial use were accepted by contract, WDIDs 2014039, 2014654, 2706153. WDID 2705326 was removed from the 2024 ARP as a consequence of non-compliance with a DWR order, but the Subdistrict renewed a contract that included this well and listed it for 2025. The other three wells that are part of this renewal contract are continuing from 2024 and are not new for 2025. The Subdistrict removed no other wells from the 2024 ARP.

The contract wells accepted by the Subdistrict in 2025 are listed in Appendix P. Contract wells were reviewed for the terms of the contracts, associated permits and decrees for each well, and historical meter records. Any well used for any beneficial uses not authorized by permit and/or decree for those structures cannot be covered by the 2025 ARP and the owners will be notified by separate correspondence.

WDIDs 2706366 and 2705326 that the Subdistrict accepted in the ARP are for wells that are in the process of completing court cases to change the use of an existing Subdistrict irrigation well to another use. Both have submitted SWSP applications for a temporary change of water rights.

Wells that have submitted an SWSP and/or started the process of changing an existing permitted/decreed use to a Non-Exempt use described in the participation contract can be conditionally accepted. These wells cannot be operated until the SWSP and/or decree is finalized and approved. Should an SWSP become invalid during the ARP Year or the change of use in a court case be denied, the well can no longer be covered by the ARP and the owners will be notified.

## Subdistrict No. 1 ARP Approval: Plan Year 2025

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All wells accepted as contract wells for this ARP approval have permitted and/or decreed limits, and they will only be accepted for groundwater withdrawals up to those respective limits. If historical records indicate a pattern of exceedance of these limits in the past, owners of these wells may be notified by separate correspondence that their wells are being conditionally accepted, and that exceedance of the legal limits will not be covered under this ARP. The Subdistrict will be copied on all separate correspondence sent for these purposes.

### **Great Sand Dunes National Park Service Contract**

The Subdistrict continued a contract made in 2020 with the Great Sand Dunes National Park Service (NPS) (see Appendix O). The NPS wells (WDIDs 3505620, 3505052, 3505053) lie outside the Subdistrict No. 1 Response Area, but inside the RGDSS Model Domain in an area for which no RGDSS Response Function was developed. Therefore, under Rule 7.5, the NPS provided a Glover analysis as an alternative to determine stream depletions due to NPS groundwater use.

The analysis was determined to be an acceptable and reliable method of estimating stream depletions caused by NPS wells for purposes of the Subdistrict ARP. The Subdistrict also supplied a letter dated January 14, 2021 describing DWR's acceptance of a defined sustainability metric for NPS as required by DWR's Rules and Regulations<sup>3</sup>.

The wells included under this contract are accepted for the 2025 ARP. Appendix O of the ARP includes updated tables showing historical pumping and estimated Net Groundwater Consumptive Use and monthly net stream depletions for the NPS wells for the 2025 ARP Year. Valid forbearance contracts were also submitted with the ARP.

### ***Other Well Identification Information (Section 2 of 11.1.1 of the ARP)***

The requirement to provide the database of wells the Subdistrict accepted as part of this ARP was satisfied under 11.1.1.1.

### ***Subdistrict Wells with Plans for Augmentation (Section 3 of 11.1.1 of the ARP)***

The Database of Subdistrict Wells includes some wells that are part of an augmentation plan. The augmentation plans vary in their conditions, but generally they coordinate surface rights and other wells in administration of their respective augmentation plan. They are included in the list for fee determination. If any portion of their pumping is not covered by their individual augmentation plans, it is subject to the Subdistrict fees and the Subdistrict will replace Injurious Stream Depletions due to that pumping as part of this ARP. Some wells in this list had independent water rights prior to gaining coverage through an augmentation plan. The Second Amended PWM does not allow expansion of "any existing beneficial use or allow a water right to be used for a beneficial use not contained in a valid Decree or Permit." (Second Amended PWM at 2.5.1)

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Paragraphs 7 and 8 on page 43 of the April 10, 2013 Decree<sup>4</sup> clarified that the Subdistrict is required to include a list of Augmentation Plan Wells including both those wells that are listed as Subdistrict Wells but that have augmentation plans associated with them as well as those wells located within the Subdistrict Territory that have augmentation plans and that will operate independently of the Subdistrict. This list of Augmentation Plan Wells must include the well WDID number, the structure name, the owner's name, the augmentation plan decree case number, an explanation of the augmentation plan and an explanation of the way the Subdistrict treated the Augmentation Plan Wells. The Subdistrict must also include a map with the locations of both types of Augmentation Plan Wells indicated on the map and hyperlinks to the court decrees for each court-decreed augmentation plan.

### **96CW0038 Crites Augmentation Plan**

The Subdistrict reports that the Plan of Augmentation decreed in 96CW0038 known as the Crites Augmentation Plan will not be in operation for 2025. The WDID for the well associated with the Plan of Augmentation is 2013777. This well has no legal water right outside of its plan for augmentation and, therefore, cannot divert groundwater or operate as a Subdistrict No. 1 Well in 2025.

### **82CW0017 SRS Augmentation Plan**

The Plan of Augmentation decreed in 82CW0017 known as the SRS Augmentation Plan will not be in operation for 2025. The wells associated with the Plan of Augmentation are 2008188, 2008189, 2008190, 2008191 and 2008192. All the wells associated with the 82CW0017 decree will operate as Subdistrict No. 1 Wells as part of the 2025 ARP.

### **99CW0025 Bradley Augmentation Plan**

The Plan of Augmentation decreed in 99CW0025 known as the Bradley Augmentation Plan will not be in operation for 2025. The wells associated with the Plan of Augmentation are 2010235 and 2013884. The wells associated with the 99CW0025 decree will not be operated during 2025.

Subdistrict No. 1 will remedy injurious stream depletions caused by all the groundwater withdrawals from the wells that are part of these plans for augmentation and will meet the requirements for aquifer sustainability in compliance with the rules and regulations for Water Division No. 3 promulgated by the Colorado State Engineer and the Plan of Water Management.

Appendix B of the ARP contains the list of augmentation wells, a map of the fields associated with those augmentation plans, as well as a description of the details regarding each augmentation well.

I have reviewed Appendix A, Appendix B, and Appendix P of the ARP and consulted with staff and find it to be an accurate inventory of Subdistrict Wells and augmented wells that meets the requirements of the May 2010 and April 2013 Decrees.

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<sup>4</sup> *Concerning the Office of the State Engineer's Approval of the Plan of Water Management for Special Improvement District No.1 of the Rio Grande Water Conservation District, Findings of Fact, Conclusions of Law, Judgment and Decree, Case Nos. 06CV64 and 07CW52, District Court, Water Division No. 3, Colorado (April 10, 2013).*

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## ***Total Combined Projected Annual Diversion for All Subdistrict Wells (Section 4 of 11.1.1 of the ARP)***

For Subdistrict ARP Wells listed in this ARP, DWR total metered groundwater withdrawals as of April 1, 2025, for the 2024 Water Administration Year were ±175,819 acre-feet, including ±172,173 acre-feet of sprinkler pumping.

Subdistrict Well Metered Pumping (acre-feet)  
Entered in Table 2.1 of the ARP

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
330,092	264,912	236,076	242,647	211,699	242,701	242,397	269,870	218,394	248,981

2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
212,329	209,376	223,523	175,819						

Based on projected Subdistrict operations, weather predictions and antecedent conditions, the ARP anticipates that 2025 well pumping will be **209,100 acre-feet**.

## ***Expected Methods of Irrigation, the Combined Projected Number of Acres Irrigated and the Total Projected Acreage by Each Irrigation Method (Section 5 of 11.1.1 of the ARP)***

Each irrigation season, the RGWCD conducts a field survey of the irrigated acreage on the Valley floor within the RGWCD boundaries to record crop types grown by field. Table 3.1 is the summary of “irrigated acres, cropping patterns and irrigation methods” on parcels that are part of this ARP’s Subdistrict Farm Units. The data was derived from the irrigated agriculture field survey by spatially “capturing” any fields that lie within any of the landowner parcels that are part of the Farm Units.

The ARP shows that the Subdistrict categorized ±164,151 acres in 2024. Of this total, ±128,276 acres were irrigated and ±35,875 acres were fallowed or in CREP programs. It is noted that “Potatoes”, “Barley”, and “Alfalfa” are the highest acreage categories, followed by “Cover Crop” with ±18,346 acres.

## ***Non-Irrigation Subdistrict Wells - Calculation of All Projected Withdrawals and Projected Net Groundwater Consumptive Use (Section 6 of 11.1.1 of the ARP)***

The historical pumping for the wells that are not irrigation wells is included in the Response Function spreadsheet as “Other Pumping”. Spreadsheets provided by the Subdistrict describe the Consumptive Use percentage for each of these wells. The Response Function spreadsheet provided with the ARP indicates the weighted average Consumptive Use percentage of the “Other” wells is 51.0%. The projected pumping for 2025 is 3,100 acre-feet.

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### Great Sand Dunes National Park Service Contract

The historical pumping for the NPS wells from 2011 through 2024 is shown in the table below.

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9.95	10.48	9.74	10.50	10.79	16.36	7.28	5.60	7.75	11.62
2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
5.79	7.63	4.77	6.02						

The estimated projected pumping for 2025 supplied by the NPS is 8.88 acre-feet. The Consumptive Use percentage is 10%.

### ***Other Data Necessary to Support the Projected Stream Depletions (Section 7 of 11.1.1 of the ARP)***

No other data was provided.

### ***Other Information Required by the State and Division Engineers and Reasonably Necessary to Evaluate the Proposed ARP (Section 8 of 11.1.1 of the ARP)***

#### ***Farm Unit Data***

Information collected for the Subdistrict Farm Units included identification of the wells and surface rights allocated to the irrigated fields on the lands comprising each Farm Unit. A summary of the ditches and pro rata shares of surface water allocated to fields in this ARP's Farm Units is included in Appendix E. This represents the "surface water source" for Subdistrict No. 1. The groundwater source is represented by the database of Subdistrict Wells described in Section 11.1.1, above, and found in Appendix A.

#### ***Total Diversion by Ditch***

In accordance with Paragraph 2.D of Appendix 1 of the Second Amended PWM, Table 3.2 of the ARP shows diversions to the ditch service areas in the Subdistrict. The diversions shown are from DWR's 2024 diversion records and represent the total irrigation water for the ditches for the 2024 irrigation season, but only a portion of the water for some ditches is delivered within the Response Area.

#### ***Ditches and Pro Rata Shares***

The pro rata surface water allocated to the Subdistrict Farm Units is shown in Appendix E of the ARP.

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### *Surface Water Credit*

The amount of Surface Water Credit exchanged between farm units for the 2024 fees was 22,993.62 acre-feet. The ARP notes that the surface water exchanged for 2025 is not available until May and therefore was not included in the ARP.

### *Hydraulic Divide Study (Sub-Section e)*

The Second Amended PWM clarifies that the Subdistrict will continue its efforts to restore and maintain the historical Hydraulic Divide, in order to reduce stream depletions to the river from well pumping within the Subdistrict. The Hydraulic Divide is a shallow groundwater divide that separates the Closed Basin in the San Luis Valley from the remainder of the Rio Grande Basin. The Hydraulic Divide is found to the north of the Rio Grande in the area generally from Del Norte to Alamosa. Recent water level measurements in wells along the north side of the Rio Grande indicate that the Hydraulic Divide has retreated south to the Rio Grande or very near the river.

Davis Engineering Service, Inc. prepared a report entitled “Engineering Report on San Luis Valley Groundwater Level Study” from data initially collected in the spring of 2007 which described both the historical evidence of the Hydraulic Divide and the current location and condition of the divide. The study wells have continued to be measured annually to add to the study. Maps displaying the interpreted groundwater contours and location of the Hydraulic Divide have been prepared from the 2024 groundwater measurements.

### *Other*

The following supplemental information is needed to evaluate the 2025 ARP and is provided as a supplement to the ARP:

1. Resolution from RGWCD approving the Subdistrict 2025 ARP.
2. Spreadsheet showing calculations and projections used to determine Recharge Decree credit for use in the Response Function.
3. Response Function spreadsheet supporting the calculations submitted in the ARP.
4. The list of Subdistrict Wells included in the 2025 ARP in spreadsheet format matching the list presented in Appendix A. The spreadsheet should identify each WDID as sprinkler, flood, other, according to the Subdistrict’s designation for the Response Function calculation.
5. A spreadsheet describing the pumping and consumptive use percentage for each of the Subdistrict wells that are classified as “Other Pumping” in the Response Function calculations.
6. Resolution from RGWCD to use allocated Closed Basin Project water in the 2025 ARP.
7. Copies of the new CREP contracts made since the 2024 ARP.

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8. Updated Pumping and Depletion tables for GSDNP wells and valid forbearance contracts, tracking of sustainability requirements.
9. Operational Requests to the Division Engineer for the 2025 ARP
  - The Subdistrict anticipates requesting to aggregate depletions between Stream Reaches as part of the anticipated operation in 2025.
  - The Subdistrict requests to aggregate depletions with other Subdistricts during the 2025 ARP year.
  - The Subdistrict requests the Division Engineer allow a portion of the Closed Basin Project (CBP) production that is generated during the irrigation season be used to offset the Subdistrict's non-irrigation season depletions, though not to exceed the allocation approved by the CBP Operating Committee. This becomes necessary when the depletions owed for all RGWCD Subdistricts combined in any one or more months during the non-irrigation season are greater than the production of the Closed Basin Project production in those months.
  - The Subdistrict requests to release water held in reservoir storage for temporary storage in the unconfined aquifer.

### ***11.1.2 Projected Stream Depletions from the Wells Covered by the ARP based on the Applicable Response Function or Approved Alternative Method***

For the purpose of this ARP, the RGDSS Groundwater Model (version 6P98) has been the basis for the Response Functions used in calculating the stream depletions caused by the Subdistrict Wells' groundwater withdrawals. The Response Function spreadsheet contains outputs of total depletions for the Plan Year and a breakdown of monthly depletions for three reaches of the Rio Grande.

The April through September streamflow forecasts included in the ARP are made by the Division Engineer and are based upon guidance given by forecasts from the United States Department of Agriculture's Natural Resources Conservation Service ("NRCS"), the National Weather Service NWS), and the National Center for Atmospheric Research (NCAR).

The NRCS streamflow statistics are calculated over a 30-year period and updated each decade, in agreement with World Meteorological Organization (WMO) standards. This 30-year reference period was chosen to characterize the current hydro climatology at each station. The most recent medians and averages have been updated to include data for the water years 1991-2020. The current year streamflow projection is compared to the 30-year reference period to determine the percent of "normal" streamflow. The NRCS forecasts were reported as percent of the median in this report.

The annual streamflow forecasts included in Appendix C of the ARP include the March 31, 2025 Division Engineer's Rio Grande Compact Ten Day Report for the Rio Grande and for the Conejos River basin.

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### *2025 Stream Flow Forecast - Rio Grande (Section 1 of 11.1.2 of the ARP)*

The April - September flow for the Rio Grande is 310,000 acre-feet for use in the Response Functions for 2025. The annual flow is estimated to be ±390,000 acre-feet.

**Rio Grande Stream Flow Forecast**

Rio Grande Stream Flow Analysis	Apr-Sep Forecast (acre-feet)	% of median	Estimated Additional (acre-feet)	Jan - Dec Forecast (acre-feet)
	(1)	(2)	(3)	
Division Engineer, Ten Day, 3/31/2025	310,000	64.5%	80,000	390,000

- (1) projected 50% exceedance streamflow at the gaging station
- (2) NRCS 30-year average of 480,000 used for this calculation (recently adjusted from 515,000)
- (3) January through March and October through December

### *2025 Stream Flow Forecast - Conejos River (Section 2 of 11.1.2 of the ARP)*

The Subdistrict used the Division Engineer’s streamflow forecast and the data collected from the Division Engineer’s Rio Grande Compact Ten Day Report. This forecast was based upon the NRCS forecast (projected 50% exceedance streamflow at the Conejos River near Mogote, Los Pinos River near Ortiz, and San Antonio River at Ortiz gaging stations for the period April-September), the NWS forecast, and the WRF-Hydro forecast. The Subdistrict does not enter the April - September flow for the Conejos for use in the Response Functions for 2025.

**Conejos Stream Flow Forecast**

Conejos Stream Flow Analysis	Apr-Sep Forecast (acre-feet)	% of median	Estimated Additional (acre-feet)	Jan - Dec Forecast (acre-feet)
	(1)	(2)	(3)	
Division Engineer, Ten Day, 3/31/2024				
Conejos River near Mogote	121,000	72%		
Los Pinos River near Ortiz	29,000	40%		
San Antonio River at Ortiz	3,900	25%		
<b>TOTAL</b>	153,900		26,100	180,000

- (1) projected 50% exceedance streamflow at the gaging station
- (2) NRCS 30-yr Average Flow: Conejos-168,000, Los Pinos-61,000, San Antonio- 9,600 (recently adjusted from Conejos-194,000, Los Pinos-73,000, San Antonio-15,600)
- (3) January through March and October through December

### *Projected Annual Recharge Credit (Section 3 of 11.1.2 of the ARP)*

The ARP next indicates projected recharge credit as an offset to projected pumping. Major ditches that bring surface water into the Subdistrict have recharge decrees, as detailed in the ARP.

Paragraph 3.C of Appendix 1 of the Second Amended PWM requires that recharge credit be based upon anticipated hydrologic conditions for the 2025 ARP Plan Year using historical

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diversion records and the terms of the recharge decrees. The ARP developed trend lines for each canal/ditch by plotting historical annual river flows and corresponding recharge credits, in order to provide a reasonable method for predicting probable recharge credit quantities for 2025. The mathematical process used to develop the trend lines developed for each of the four canals/ditches and resulting equations describing the trend lines are included in Appendix D.

The projected recharge credits were reduced based on the pro-rata shares per ditch within the Subdistrict boundary. Further, the projected recharge credits were reduced by the projected consumption attributable to the surface water directly used through sprinkler irrigation (83%) and flood irrigation (60%), which is also outlined in the ARP.

### Calculated Projected Recharge Decree Credits for Subdistrict No. 1 During Current Irrigation Year (Units in acre-feet)

	Rio Grande Canal	San Luis Valley I.D.	Prairie Ditch	SLV Canal	Totals
Total Consumable	71,264	7,977	5,634	7,607	92,482
% Within Subdistrict No. 1	93.98%	100%	99.20%	80.87%	
Total Consumable Within Subdistrict No. 1	66,974	7,977	5,589	6,152	86,692
Surface Water Through Sprinklers @83%	-2,450	-13	-189	-120	-2,771
Surface Water Used for Flood @60%	-253	0	0	0	-253
<b>Totals</b>	<b>64,271</b>	<b>7,965</b>	<b>5,400</b>	<b>6,032</b>	<b>83,667</b>

Projected recharge decree credits for the Subdistrict for 2025 are calculated as ±83,667 acre-feet using a Rio Grande streamflow forecast of 390,000 acre-feet.

### *Projected Plan Year Stream Depletions (Section 4 of 11.1.2 of the ARP)*

Subdistrict staff used the Response Functions developed under RGDSS Groundwater Model Phase 6P98 for predicting injurious depletions to the Rio Grande during the 2025 Plan Year. A copy of the Response Function spreadsheet was provided to DWR as a supplement to the 2025 ARP. The tables in the spreadsheet have been updated to include the Subdistrict’s historical operations and estimated 2025 values.

The next step in calculating stream depletions using the Response Functions is updating Table 2.1 to derive the annual net groundwater consumptive use. The consumptive use ratios for sprinkler and flood irrigation used in the Model are standard factors of 83% and 60%, respectively. The consumptive use ratio for “Other” wells is specific to the uses of those wells and can vary widely. The “Other Consumptive Use Ratio” for the whole Response Area is a composite derived from the individual well withdrawals and consumptive uses.

The Subdistrict provided a spreadsheet of “Other” wells included in the Subdistrict ARP Well list as a supplement to the ARP. The spreadsheet shows the individual well groundwater

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withdrawals and consumptive use factors to explain how the composite ratios were determined for the subset wells represented in Table 2.1 of the ARP.

DWR identified some anomalies in the pumping figures submitted for the Subdistrict's Response Function calculations requiring a correction to the depletion schedule. The Response Function output for this approval will be generated from DWR's Response Function run. The tables presented in this letter have been updated with DWR's calculations and the Response Function output tables will be included as an Exhibit to this letter.

Historical ARP Well groundwater withdrawal values were entered in Table 2.1 for years 2011 through 2024. Projected ARP Well groundwater withdrawal values were used for 2025. The projected Net Groundwater Consumptive Use for the Plan Year is  $\pm$  **88,640 acre-feet**.

Following determination of the Net Groundwater Consumptive Use, the data was incorporated in the Response Functions Table 2.2 to calculate stream depletions for the Plan Year and projected into the future.

The Response Functions calculated stream depletions to the Rio Grande during the Plan Year, due to both past ARP Well groundwater withdrawals and the projected Plan Year ARP Well groundwater withdrawals. The total depletions are  **$\pm$ 219.7 acre-feet**, which includes negative depletions of  $\pm$ 414.8 acre-feet in Stream Reach 1 and  $\pm$ 93.4 acre-feet in Stream Reach 3. The locations of the stream depletions and monthly quantities are also tabulated in Table 2.5.

Post-Plan Stream Depletions are estimated to accrue to impacted streams for approximately 19 years. Based on predictions from the Response Functions, Table 2.4 of the ARP shows there would be a total of  **$\pm$ 791 acre-feet** of Post-Plan Stream Depletions.

### **Great Sand Dunes National Park Service Contract**

The Net Groundwater Consumptive Use for the NPS wells typically represents 100% of the depletions from the current year projected pumping and is considered to be a conservative representation. The estimated Net Groundwater Consumptive Use for 2025 is 0.89 acre-feet.

### ***11.1.3 Description of How Injurious Stream Depletions from Groundwater Withdrawals by Wells Included in the ARP will be Replaced or Remedied***

#### ***Amounts and Sources of Replacement Water for 2025 Plan Year (Section 1 of 11.1.3 of the ARP)***

The Subdistrict has assembled a portfolio of water supplies for the replacement of Injurious Stream Depletions and remedies other than water. The ARP identifies the water rights, their availability and their amounts in Table 4.1 of the ARP.

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This replacement water or remedy will be available to replace Injurious Stream Depletions as directed by the Division Engineer. A summary of the portfolio items is shown in the Replacement Sources tables on the following pages. I will approve up to the full amount itemized in the Replacement Sources tables and stated in the following sections, less any water used at the end of the 2024 Plan Year not reflected in these totals.

### Subdistrict No. 1 Replacement Water Reservoir Storage Sources (acre-feet)

	Water Right Name	Submitted in ARP	Approved in SWSP's <sup>2</sup>	Remaining 4/15/2025 & Approved for 2025 ARP <sup>3</sup>
<b>SWSP</b>	<b>In Storage</b>			
5346	Williams Creek Squaw Pass (Navajo Devel.) <sup>1</sup>	134.8	2,584.8	134.8 (Parker Squaw Vintage)
5346,5506	Williams Creek Squaw Pass (Farmers Union) <sup>1</sup>	56.5	56.49	56.5
5346,5506	Tabor Ditch No. 2 & Enlargement (SLVID) <sup>1</sup>	45.1	105.3	45.1
5346,5506	Tabor Ditch No. 2 & Enlargement (CPW) <sup>1</sup>	0	272.5	0
5346,5506	Pine River Weminuche Pass (SLVWCD)	1,000.0	500+500	1,000
5346,5506	Treasure Pass TM Diversion (Underwood/Cook)	730.76	432.3+ 298.5	781.5 (Treasure Pass Vintage)
5346,5506	Treasure Pass TM Diversion (Kleckler Ranch)	50.7	100	
5346,5506	Piedra River, TM, Piedra Water Rights (CPW)	500.0	500	500 (CPW DLF#2 SWSP)
	<b>Total Transbasin</b>	<b>2,517.86</b>		<b>2,517.9</b>
13CW3002	Santa Maria Reservoir Co Leases			
5491	2011 - 1950 shares @ 0.9233 af/share		1,800	
5491	2012 - 3270.8 shares @ 0.9443 af/share	793.61	3,089	5,099.6 (Native in SM)
5491	2013 - 3235.8 shares @ 0.72 af/share	2,328.8	2,330	
5491	2014 - 3320.8 shares @ 1.288 af/share	4,278.2	4,277	
5491	2015 - 3095.8 shares @ 1.86 af/share	3,568.2	5,758.2	2,854 (SM Native in RG)
5491	2016 - 1645.0 shares @ 0.968 af/share	533.59	1,592.36	
5491	2017 - 835.0 shares @ 1.084 af/share		905.14	
5491	2018 - 210.0 shares @ 0.618 af/share		129.78	3,553.21 (Native in C)
5491	2019 - 180.0 shares @ 2.638 af/share		474.84	
6164	Mammoth Land Holdings Exchange (SMRC for TM)	49.3		0
	<b>Total SMRC</b>	<b>11,551.7</b>		<b>11,506.8</b>
	<b>Total In Storage</b>	<b>14,069.6</b>		<b>14,024.7</b>

<sup>1</sup> Several Transbasin replacement supplies included in previous ARPs were completely consumed during the 2018 Plan Year. They are listed in the above table for tracking purposes.

<sup>2</sup> Amounts shown are full amounts that were approved in SWSPs and do not indicate the amount remaining.

<sup>3</sup> Current Water Commissioners Reservoir records

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### Subdistrict No. 1 Replacement Water Forbearance & Closed Basin Project Agreements (acre-feet)

	On Call	Limit	Expected Yield	DWR Expected Yield
WDID	Forbearance			
2000812	Rio Grande Canal (contract provided) 1 yr 2026	900		
2000829	San Luis Valley Canal (contract provided) 1 yr 2026	400		
2000623	Commonwealth-Empire(contract provided) 1 yr 2026	500		
2000566	Centennial Ditch (contract provided) 1 yr 2026	10 days		
2000627	Excelsior Ditch (contract provided) 1 yr 2026	1,000		
2000798	Prairie (contract provided) 1 yr 2026	100		
2000753	Monte Vista Canal (contract provided) 1 yr 2026	300		
2000631	Farmers Union Canal (contract provided) 1 yr 2026	1,000		
2000816	Rio Grande Lariat Ditch (contract provided) 1 yr 2026	500		
	<b>Total On Call- Forbearance</b>	4,700	<b>200 to 800 <sup>4</sup></b>	<b>Up to 325</b>
	CBP Allocation (as of March 2025) for SD-1, 2, 3, 5, 6	4,500	245.2	
	<b>Total On Call- Non-Irrigation Season</b>		<b>245</b>	<b>Up to 245</b>

<sup>4</sup> See Operation section of the ARP.

### **Great Sand Dunes National Park Service Contract**

NPS has acquired forbearance agreements with The Nature Conservancy, Great Sand Dunes National Park, Colorado Division of Parks & Wildlife (San Luis Lakes), and Rio Grande Water Conservation District for the 2025 ARP Year. The agreements represent all affected water rights holders on Medano Creek. It is expected all depletions to Medano Creek during the 2025 ARP Year will be remedied through these forbearance agreements.

### ***Operation of the 2025 Annual Replacement Plan (Section 2 of 11.1.3 of the ARP)***

Subdistrict water that is currently in storage will be released, including transit losses, from Rio Grande, Santa Maria/Continental or other Reservoirs in the upper Rio Grande at the direction of the Division No. 3 Division Engineer, in time and amounts required to offset Injurious Stream Depletions as shown in Table 2.6 of the ARP. All Plan Year Injurious Stream Depletions will be replaced or remedied in the time, location and amount that they occur, beginning the first day of the Plan Year. These releases of water will be performed under the provisions of section 37-87-103, C.R.S. In addition, the ARP states that since the most current RGDSS Groundwater Model (6P98) does not predict depletions by Subdistrict Wells to streams other than the Rio Grande, the Subdistrict will not make replacements to any stream other than the Rio Grande.

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The ARP mentions the Subdistrict may make a request to the Division Engineer to release replacement sources currently held in reservoirs to the unconfined aquifer for temporary storage. The Subdistrict may submit an application for an SWSP describing details and justification of how the Subdistrict anticipates this type of operation. The SWSP would then be reviewed for potential approval and implementation.

The ARP notes that sections 37-80-120, 37-83-104, and 37-83-106, C.R.S. allow for exchanges to occur between reservoirs without a decreed exchange right, if recognized by the Division Engineer. The ARP states that appropriate accounting between the Division Engineer's Office and the Subdistrict will occur on a regular and routine basis as these exchanges occur and that they will be documented and reported in the 2025 Annual Report. The Division Engineer's Office will be notified in advance of these exchanges, and the exchanges must be documented and approved by the Division Engineer prior to them occurring.

The ARP provides documentation that the Subdistrict has renewed forbearance agreements for the 2025 Plan Year with several canals located on the main stem of the Rio Grande. The Subdistrict describes a yield of 200 to 800 acre-feet from forbearance in the Operations section of the ARP. Exercise of these agreements is at the discretion of the Subdistrict.

The Subdistrict also states they have forbearance agreements to remedy injurious depletions from the Great Sand Dunes National Park wells. All injurious depletions will be remedied through these forbearance contracts in the 2025 ARP.

The ARP includes a resolution by the Centennial Ditch in Appendix N. The resolution allows replacement water to be carried through the Centennial Ditch for delivery when the Rio Grande is dry below the Excelsior Ditch. The water will be measured and delivered directly to the Rio Grande at the point the Centennial Ditch can return water directly to the Rio Grande. That point is above any water right that may be injured while in priority. The Centennial Ditch must be adequate to efficiently deliver water around the dry stretch of river to the satisfaction of the Division Engineer prior to this being considered a viable option. The Centennial Ditch Company's water rights are senior enough to accomplish this carriage in any foreseeable situation (Priority Nos. 32 and 173).

Further, the ARP indicates that at times when there is no requirement to deliver water to the Lobatos Gage to meet the requirements of the Rio Grande Compact, no water will be delivered to the lower reach of the Rio Grande for replacement of Injurious Stream Depletions to the Rio Grande Compact from the Subdistrict. This is incorrect in that in virtually all conditions, replacement of injurious depletions is required to be made. DWR requests that the Subdistrict make changes to their future ARP requests to remove this incorrect language. The only instances where the Subdistrict is not required to replace these Stream Depletions are when there is an excess of 150,000 acre-feet of credit for Colorado or Elephant Butte Reservoir has spilled. In these instances, water passing the Lobatos Gage will not result in Compact credit to Colorado. In all other circumstances, the replacement of Injurious Stream Depletions to the Rio Grande Compact will result in credit being given to Colorado, either for the current year or for future years. DWR agrees that the Subdistrict

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may replace these Injurious Stream Depletions after the irrigation season or when Compact deliveries are being made.

The ARP notes that the Subdistrict has acquired multiple years' worth of depletion replacement water that is currently in storage and available for release. That volume exceeds the amount needed to cover the current and total calculated post-plan stream depletions to the Rio Grande. If Subdistrict No. 1 were to fail, the individual well owners of the former Subdistrict No. 1 would have to obtain plans for augmentation or take other measures to comply with present or future rules and regulations governing groundwater withdrawals. Presumably, those plans would be required to replace these post-plan depletions into the future. In the interim, Subdistrict No. 1 would provide water to remedy injurious post-plan depletions.

DWR understands that if the Subdistrict otherwise ceases operations, the water in storage will remain under control of the Subdistrict and/or the RGWCD and will be available to remedy the post-plan injurious depletions under the direction of the Division Engineer.

### ***Anticipated Funding for the Plan Year (Section 3 of 11.1.3 the ARP)***

The Subdistrict submitted sufficient financial information to document the purchase and leases of replacement water for the 2025 Plan Year.

### ***11.1.4 Contractual Arrangements among Water Users, Water User Associations, Water Conservancy Districts, Subdistricts, and/or the Rio Grande Water Conservation District***

#### ***Forbearance Agreements (Section 1 of 11.1.4 of the ARP)***

In accordance with section 37-92-501 (4) (b) (I) (B) C.R.S., the Subdistrict has reached forbearance agreements with multiple ditches (Appendix H of the ARP), for a total of up to 4,700 acre-feet. A summary of the amounts contracted and the expected yield are found in the table of replacement sources above.

I note that forbearance depends on climate and actual days when a ditch is the calling water right and the exact yield per year is indeterminate. It is also noted that the amount of forbearance water usable by the Subdistrict is limited by their depletions owed daily to streams. The Subdistrict indicates they expect to yield up to ±800 acre-feet from these agreements during the 2025 irrigation season. However, the portfolio of water as determined in the 2025 Plan Year ARP indicates sufficient firm water to cover Injurious Stream Depletions in the event that no forbearance is available.

#### ***Closed Basin Project Production of Calendar Year 2024 (Section 2 of 11.1.4 of the ARP)***

According to the information provided in the ARP, the projected production of the Closed Basin Project delivered to the Rio Grande is 4,500 acre-feet during calendar year 2025. The

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allocation of the Closed Basin Project production in accordance with agreements is 60% to the Rio Grande and 40% to the Conejos River basin over the long-term, with provision for adjustments in the allocation during individual years. The 2025 allocation of the Closed Basin Project production will be 60% to the Rio Grande and 40% to the Conejos River.

Per a letter from the Rio Grande Water Users Association dated March 28, 2025, the Board of Directors passed a motion to specifically allocate 4,500 acre-feet (2,000 in 2025 and 2,500 acre-feet in 2026) of the Rio Grande's share of the usable yield of the Closed Basin Project to replace the stream depletions under the Subdistricts. Similarly, the Board of Directors of the San Luis Valley Water Conservancy District agreed to the allocation as stated in their letter to the Rio Grande Water Conservation District on April 1, 2025. The resolution from RGWCD allowing the Subdistrict to use Closed Basin Project water in the 2025 ARP was provided as supplemental information. Closed Basin Project water was approved as a replacement source by the Division No. 3 Water Court in the April 2013 Decree (Page 41, Paragraphs 5 - 6).

### ***11.1.5 Documentation of Progress Towards Achieving and Maintaining a Sustainable Water Supply***

#### ***Water Levels, Pressure Levels, and/or Groundwater Withdrawals (Section 1 of 11.1.5 of the ARP)***

##### ***Unconfined Aquifer Change in Storage Volumes (Sub-Section a)***

Appendix J of the ARP shows a tabulation of groundwater levels measured in unconfined and confined wells both within the boundaries of Subdistrict No.1 and the study area for the Change in Unconfined Aquifer Storage - West Central San Luis Valley for the study period, as required by the Second Amended PWM. A tabulation of measured values obtained during the previous 12 months is also included.

The Second Amended PWM includes a required objective of recovering groundwater levels to the extent necessary to achieve unconfined aquifer storage levels between 200,000 and 400,000 acre-feet below the storage level that existed on January 1, 1976. This is measured by a monthly study titled "Study of the Change in Unconfined Aquifer Storage" and utilizes measured groundwater levels from RGWCD monitoring wells located throughout the study area which is approximately the same area included within the Subdistrict.

The calculated monthly change in unconfined aquifer storage volumes has been provided as Figures 6.1, 6.2 and 6.3 of the ARP. Based on measurements through February 2025, the ARP indicates that the change in Unconfined Aquifer storage was -1,263,314 acre-feet since 1976 on an accumulated month basis. As described in the ARP, the 5-year running average of the accumulated change in storage through December 1, 2024 was -1,231,043 acre-feet. The

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December 1, 2024 5-year running average of the accumulated change in storage value was 831,043 acre-feet below the lowest goal level.

The Second Amended PWM states that “[a]ll measurements used to gauge success in reaching Unconfined Aquifer Storage goals will be based on a five-year running average of annual storage levels derived from the average of monthly levels” (Second Amended PWM at 3.4.7).

### ***Projections of Unconfined Aquifer Change in Storage Volumes (Sub-Section b)***

The Subdistrict was asked to include a plan to achieve and maintain a sustainable aquifer as part of their ARP. Each year since 2020, the Subdistrict has provided a graph of the historical Unconfined Aquifer Storage levels showing the amount of recovery needed to reach the Subdistrict’s target for compliance with the sustainability metric by 2031. The current estimated rate of recovery needed to achieve the sustainability level in the aquifer is ±197,738 acre-feet/yr.

### ***Listing of Irrigated Acres Proposed to be Temporarily or Permanently Fallowed and Associated Water Rights (Section 2 of 11.1.5 of the ARP)***

Fallowing irrigated land is one way to attain the storage goals discussed above. The Second Amended PWM (paragraph 3.4.4) states that “up to 20,000 acres of land previously irrigated in 2000 must be withdrawn from irrigation by December 31, 2016 or a reduction in annual consumptive use of groundwater withdrawals in the amount of 40,000 acre-feet per year. In a similar manner, if the goals in Section 3.4.3.3. above are not achieved, up to 30,000 acres in total must be designated for reduction by December 31, 2018 or a reduction in annual consumptive use of groundwater withdrawals in the amount of 60,000 acre-feet per year. If the goals in Section 3.4.3.3. above are not achieved, up to 40,000 acres in total must be designated for reduction by December 31, 2021 or a reduction in annual consumptive use of groundwater withdrawals in the amount of 80,000 acre-feet per year” in order to progress toward the Unconfined Aquifer storage goal.

RGWCD Staff have been compiling irrigated acreage coverage for the calendar year 2000 by digitizing past RGWCD irrigated cropland census maps for the area within the Subdistrict’s boundary. This information will serve as a basis to determine the previously irrigated lands in the calendar year 2000 that have been fallowed as a part to the Second Amended PWM through the Conservation Reserve Enhancement Program (“CREP”), other conservation programs or the Subdistrict conservation programs.

While Subdistrict efforts have achieved a significant reduction in pumping, the reduction in pumping has not yet resulted in sustained increases in aquifer levels due to the persistence of drought conditions and high volumes of groundwater pumping in extraordinarily dry years.

### ***2025 Contracted Conservation Reserve Enhancement Program Lands (Sub-***

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### *Section a)*

Local USDA FSA field offices located in Alamosa, Rio Grande, and Saguache Counties and the Subdistrict staff implemented the Rio Grande CREP signup process beginning in May 2013 per the 2008 Farm Bill. Currently, the Subdistrict has finalized FSA CRP-1 Contracts for 4,333 acres in Permanent Water Retirement and 6,547 acres in 15 Year Water Retirement terms for a total of 10,880 acres reducing water consumption by approximately 14,213 acre-feet per year. In 2023, two contracts that had been made in 2022 were terminated by the owners, resulting in a loss of 240 acres from the program. (Totals have been corrected in the table below.)

A map and legal descriptions for the existing CREP parcels are included in Appendix L along with the wells and surface rights associated with the parcels. A summary of the acreage under CREP contracts is shown below. CREP signups is ongoing, but the Subdistrict submitted no new CREP contracts for the 2025 ARP.

2025 Subdistrict No. 1 CREP Enrollment (acres)			
Rio Grande River CREP Enrollment	Permanent	Temporary	Total
<b>Year</b>			
<b>2014</b>	918.6	1,049.9	1,968.5
<b>2015</b>	680.4	1,206.6	1,887.0
<b>2016</b>	1,164.0	751.2	1,915.2
<b>2017</b>	0	479.7	479.7
<b>2018</b>	241.8	1,510.0	1,751.8
<b>2019</b>	0	597.0	597.0
<b>2020</b>	604.6	120.0	724.6
<b>2021</b>	600.2	0	600.2
<b>2022</b>	0	100.0	100.0
<b>2023</b>	0	484.6	484.6
<b>2024</b>	123.0	248.1	371.0
<b>2025</b>			
<b>TOTAL</b>	<b>4,333</b>	<b>6,547</b>	<b>10,880</b>

### *Temporary Land Retirement - Fallow (Sub-Section b)*

In 2025, the Subdistrict offered a one-year ranked fallow program. This program allows for producers to bid on which field is fallowed and a ranking calculation was developed using a 5-year average diversion and the offered price by the Contractor. Eighty applications for fallow were accepted. This program looks to reduce irrigation on approximately 9,600 acres with the anticipated amount of reduced groundwater withdrawal being approximately 12,300 acre-feet.

A table listing the legal descriptions for these temporary fallow parcels is included in Appendix L along with the wells associated with the parcels.

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### 2025 One Year Fallow Contracts

Contracts	Irrigated Acres	5 Year Average Diversion	Estimated Reduction	Temporary Reduced Application (acre-ft/ac)
80	9,600	13,245 af	12,300 af	1.28

### ***Well Purchase Program (Sub-Section c)***

The Subdistrict chose not to fund their Well Purchase Program in 2024 but offered it again for 2025. Under the program, wells are purchased by the Subdistrict, taking them out of production. The table below summarizes the effect of the wells identified for this program for the three years it was offered.

**2021 - 2025 Subdistrict No. 1 Well Purchase Program**

Year	Number of Wells	Retired Land (acres)	Retired Pumping* (acre-ft)	Retired Application (acre-ft/ac)
2021	19	1,375	1,766	1.28
2022	16	1,149	1,009	0.88
2023	15	1,303	1,651	1.27
2025	4	570	730	1.28
<b>TOTAL</b>	<b>54</b>	<b>4,397</b>	<b>5,156</b>	

*\*10-year average of historical pumping*

### ***Senate Bill 22-028, The Groundwater Compliance and Sustainability Fund (Sub-Section d)***

In accordance with the provisions of CRS § 37-60-134, also referred to as SB22 - 028, funds were made available for disbursement to well owners who qualify and provide documentation in support of a verifiable reduction in groundwater withdrawals from non-exempt wells that are subject to aquifer sustainability requirements as outlined in the State’s Rules and Regulations for Groundwater Withdrawals in Colorado Water Division No. 3 (“Regulations”). The Board of Directors of the RGWCD, in collaboration with the Colorado Water Conservation Board (“CWCB”) and the State Engineer, established eligibility and application criteria for disbursement of money from the fund.

The Subdistrict offered additional financial incentives to applicants who were accepted into the program. There were multiple application phases for this program. The first phase only accepted applications where complete and permanent dry-up of lands would occur. In later phases, applications were accepted for partial dry up of lands.

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### Groundwater Compact Compliance & Sustainability Fund (SB22-028)

Year	Dry-Up Contract	Number of Wells	Retired Land (acres)	Retired Pumping (acre-ft)	Retired Application (acre-ft/ac)
2024	Full	43	2,706		
2024	Partial	1	124		
2025	Full	8	486		
<b>Total</b>		52	3,316	6,177	1.86

### *Listing of Water Rights Proposed to be Temporarily or Permanently Retired and Historical Operations of Each Water Right (Section 3 of 11.1.5 of the ARP)*

Based on total head-gate diversions, the Subdistrict diverted approximately 2,729 acre-feet towards recharge to the unconfined aquifer on the White, McConnell, Lacy and West Medano Ranch properties during the irrigation season. The Subdistrict did not use the wells located on these parcels for any purpose in 2024.

A map of the locations of the lands purchased by the RGWCD is included in Appendix M.

### *Other Proposed Actions to be Taken as Applicable (Section 4 of 11.1.5 of the ARP)*

The Board of Managers of the Subdistrict and the Subdistrict members remain keenly aware of the PWM deadlines to achieve and maintain sustainability of the unconfined aquifer and have increased assessments to generate funds to further long-term conservation.

Examples of past conservation measures are: purchasing wells, informing constituents of aquifer level through a monthly email publication; public forums to provide education on sustainability, aquifer conditions and programs offered through the Subdistrict; online surveys to solicit input on conservation ideas; expanded options on fallow programs to increase enrollment; and, mailing out end of year water report by farm to raise water use awareness, with a customized calculation on what a 10% cut back would look like on a field by field basis.

The Subdistrict is currently engaged in a public process to amend and restate the current approved PWM, with the intent to balance water imported into the Subdistrict against groundwater pumping and rely upon natural inflow into the aquifer system to recover the unconfined aquifer. The revised PWM contemplates charging an over pumping fee to its individual members in the event that pumping exceeds imported water. Funds generated from this action will be used to fund conservation programs for Subdistrict members. The Subdistrict filed the PWM in court under 07CW0052 on September 8, 2023 and a trial to hear the issues is scheduled for January 2026.

### **Great Sand Dunes National Park Service Contract**

NPS obtained approval of the State Engineer per a letter dated January 14, 2021 (Appendix O) that describes a Sustainability Metric that is acceptable for a five year period extending from October 1, 2020 through September 30, 2025. The proposed metric is to limit total

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pumping from the NPS wells to 54.02 acre-feet, averaging 10.80 acre-feet/year. NPS is in the process of obtaining a decreed Plan for Augmentation and this metric will be reevaluated at the end of the period for incorporation into the Plan. Total pumping for 2024 was **6.02 acre-feet**. The total pumping for 2021- 2025 is expected to be 33.09 acre-feet. 2025 is the fifth year of the period.

### Findings:

Based on the information provided in the ARP and discussed above, I make the following findings:

1. The Plan of Augmentation decreed in 96CW0038 known as the Crites Augmentation Plan will not be in operation during 2025. The wells associated with the 96CW0038 decree cannot operate outside of its decreed plan.
2. The Plan of Augmentation decreed in 82CW0017 known as the SRS Augmentation Plan will not be in operation during 2025. All the wells associated with the 82CW0017 decree will operate as Subdistrict No. 1 Wells as part of the 2025 ARP.
3. The Plan of Augmentation decreed in 99CW0025 known as the Bradley Augmentation Plan will not be in operation during 2025. The wells associated with the 99CW0025 decree will not be operated in 2025.
4. The Subdistrict accepted a contract from the NPS for wells that lie outside of the Subdistrict No. 1 Response Area, but within the Model Domain. Tables showing historical pumping and estimated Net Groundwater Consumptive Use and projected monthly net stream depletion for the NPS wells were provided for 2025 by the Subdistrict as well as documentation of compliance of the proposed Sustainability Metric accepted for the NPS wells by DWR.
5. The projected pumping is based upon the inventoried Subdistrict Wells, their historical pumping, and CREP following. The inventory of wells, after adjustment as described above, is consistent with the information in DWR's databases. The historical pumping associated with the Wells is based on diversion records on file with the DWR. The method implemented by the Subdistrict to project pumping for the Wells for 2025 is consistent with historical pumping information and streamflow forecast and includes lands fallowed under CREP, through the Well Purchase Program, and Senate Bill 22-028 contracts within the Subdistrict for 2025.
6. The Second Amended PWM requires an estimation of projected recharge using historical information. Projected annual recharge credits are based on historical recharge records and the relationship between historical streamflows and recorded historical recharge volumes. The historical recharge credit is based on diversion records on file with the DWR and is calculated pursuant to methods approved by the Water Court.

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7. Projected stream depletions are calculated based on Response Functions generated from RGDSS Groundwater Model 6P98 runs, which was approved by the PRT. The Subdistrict used the 6P98 Response Functions in determining stream depletions for the Subdistrict. The ARP Year depletion schedule is included as an Exhibit to this letter.
8. It is noted that Subdistrict No. 1 has delivered sufficient replacements to streams to remedy injurious depletions for most of the past ARP Years and remedied any underestimation discovered in the Annual Review prior to the start of the next ARP Year. The Subdistrict remains in compliance with Rules 3.7, 4.13, 4.26, 5.13, 11.3, 12.1, 12.4.3; the Second Amended PWM, Appendix 1, Section 11.A; the May 2010 Decree, Sections I.A. ¶8, II.A. ¶36, II.C. ¶74.
9. The ARP identifies the sources, availability, and amounts of replacement water and remedies that the Subdistrict will use to remedy Injurious Stream Depletions during the coming year and demonstrates the sufficiency of such water to remedy such Injurious Stream Depletions:
  - a. Transbasin and Santa Maria Reservoir water up to 14,025 acre-feet is available for release under this ARP through SWSPs approved in prior years.
  - b. The use of up to 4,700 acre-feet is available for forbearance by contract.
  - c. The use of up to 245 acre-feet of Closed Basin Project water as a replacement water supply is adequate and suitable as a source of replacement water to prevent injury to senior surface water rights per the April 2013 Decree.
  - d. The comparison of CBP projected deliveries with all Subdistricts operating under 2025 ARPs indicates the CBP production, at least on an annual basis, is adequate to cover the Non-Irrigation season depletions for all the Subdistricts.
10. Water supplies noted in Table 4.1 of the 2025 ARP will be used to offset continuing Injurious Stream Depletions from this ARP should the Subdistrict fail. DWR understands that if the Subdistrict otherwise ceases operations, the water in storage will remain under control of the Subdistrict and/or the RGWCD and will be available to remedy the post-plan injurious depletions under the direction of the Division Engineer.

The Subdistrict has presented sufficient evidence and engineering analysis to predict where and when Injurious Stream Depletions will occur and how they will replace those Injurious Stream Depletions to avoid injury to senior surface water rights under the following Terms and Conditions.

### **This ARP is hereby approved pursuant to the following Terms and Conditions:**

1. This ARP shall be valid for the period of **May 1, 2025 through April 30, 2026**, unless otherwise revoked, modified, or superseded by me, a decree, or order of the court.
2. The Subdistrict has accepted a contract with NPS wells outside of Response Area #1 and whose impacts are determined pursuant to Rule 7.5 by using an approved alternate method of calculating injurious stream depletions. This action is approved

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for this ARP year.

3. The Subdistrict must replace or remedy the Injurious Stream Depletions resulting from Subdistrict Well pumping, regardless of the state of the Hydraulic Divide.
4. Deliveries (including transit losses) of stored water made available for the replacement of Injurious Stream Depletions shall be determined by the Division Engineer pursuant to this ARP and associated decrees, policies and statutes. An MOU describing any exchange must be submitted and signed by all parties prior to operating the exchange.
5. If the limit is reached for any particular forbearance agreement, then the Subdistrict will need to remedy Injurious Stream Depletions to that particular ditch or canal with another remedy.
6. The Division Engineer shall determine on an ongoing basis whether he can administer the operations under each forbearance agreement. If the Division Engineer cannot, then that operation shall cease. General Forbearance Protocols for the Rio Grande River System for 2025 were prepared by the Division Engineer. A copy of the protocols is included with this letter.
7. The Subdistrict shall provide daily replacement water accounting (including, but not limited to diversions, depletions, replacement sources, and river calls) on a monthly basis. The accounting must be emailed to the Division Engineer ([Craig.Cotten@state.co.us](mailto:Craig.Cotten@state.co.us)), the Water Commissioner ([sam.riggenbach@state.co.us](mailto:sam.riggenbach@state.co.us)), the Subdistrict Coordinator ([deborah.sarason@state.co.us](mailto:deborah.sarason@state.co.us)), and the Water Accounting Operations Specialist ([michelle.lanzoni@state.co.us](mailto:michelle.lanzoni@state.co.us)) within 10 days after the end of the month for which the accounting applies. Accounting and reporting procedures are subject to approval and modification by the Division Engineer.
8. The Subdistrict must adhere to the terms and conditions of the SWSP(s) incorporated as part of the ARP. The use and inclusion of any new replacement water within the ARP is subject to SWSP approval or approved by the Water Division No. 3 Water Court for a change of water right. Prior to the use of any new replacement water, the State Engineer will evaluate for use as an amendment under this ARP.
9. Regarding the Subdistrict's request to aggregate depletions owed between stream reaches on the Rio Grande, as long as there is a curtailment in effect on the Rio Grande to satisfy Compact obligations and the daily curtailment amount is in excess of the daily negative depletions in Stream Reaches 1 and 3, the depletions owed to all reaches may be aggregated, or summed, on a daily basis through the irrigation season. The depletion remedy can be made for the aggregate and if the release is made from a reservoir, transit losses will be added. It is acceptable for depletions between stream reaches to be aggregated during the non-irrigation season. Should conditions change such that aggregation is not allowed, the Subdistrict will be notified and full depletion amounts owed must be remedied.

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10. In the event the CBP deliveries during the non-irrigation season months are not enough to remedy the total of the RGWCD Subdistricts non-irrigation season depletions, it is acceptable for the CBP deliveries during the irrigation season months be used to remedy the additional amount of non-irrigation season depletions. However, CBP deliveries may only be credited against non-irrigation season depletions that occur during the same calendar year and during the same ARP Year. In general, January through April CBP deliveries may be used to remedy January through March of the ARP Year depletions and May through December CBP deliveries may be used to remedy November and December ARP Year depletions. Should the CBP deliveries fall short as happened in the 2022, 2023, and 2024 ARP Years, it will be necessary for the Subdistrict to provide enough replacement water to remedy the shortage for the non-irrigation season depletions.
11. Regarding the Subdistrict's request to aggregate depletions with other subdistricts, the Subdistrict may make requests for these types of changes formally to the Division Engineer, providing details of the request and documentation supporting the need to make a change to the approved ARP depletion schedule. The Division Engineer will consider such a request when it is made, under the protocol of DWR and in light of the conditions on the particular stream at the time and, if deemed appropriate, approve the request. The Subdistrict will not adopt any change until after approval by the Division Engineer.
12. All deliveries of replacement water shall be measured in a manner acceptable to the Division Engineer. The Subdistrict shall install and maintain measuring devices as required by the Division Engineer for operation of this approved ARP.
13. The Subdistrict must submit an Annual Review pursuant to Term and Condition #17 of the May 2010 Decree. The Annual Review will include information pertinent to the operation of the ARP in regard to the NPS contract wells.
14. The Subdistrict must replace or remedy all Injurious Stream Depletions caused by non-augmented pumping associated with Subdistrict Wells.
15. The Subdistrict must comply with the May 2010 Decree approving its Amended PWM, the April 2013 Decree, the Second Amended PWM, the approval conditions of the Second Amended PWM, and this ARP.
16. The Subdistrict must continue to work toward sustainability of the unconfined aquifer in accordance with the PWM.

**Approval of this ARP does not authorize any change, increase, or expanded use of any water right or permit. Any change, increase, or expansion of a water right or permit will need to comply with existing decrees and or permits, the Confined Aquifer New Use Rules, the Measurement Rules, the Rio Grande Basin Groundwater Use Rules, and may require approval of the Water Court.**

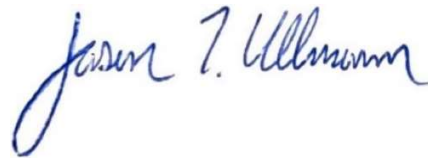
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The approval of this ARP is made with the understanding that if the ARP proves insufficient to remedy Injurious Stream Depletions, the State Engineer has the authority to invoke the retained jurisdiction of the Division No. 3 Water Court.

I want to thank you for your cooperation and compliance with this approved ARP and for your continued cooperation and compliance in the future. Your efforts are greatly appreciated. If you have any questions do not hesitate to contact any of my staff in Denver or Alamosa.

Sincerely,



Jason T. Ullmann, P.E.  
State Engineer  
Director of the Division of Water Resources

**Exhibits:**

- A: Letter, Request to Add Replacement Well WDID 2706366**
- B: Response Function 2025 Stream Depletion Tables (prepared by DWR)**
- C: Subdistrict No. 1 2025 ARP Response Function Table 2.6**
- D: General Forbearance Protocols for the San Luis Valley River Systems for 2025**

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DWR electronic notification lists  
Division 3 Water Court