#### APPENDIX 5 TO AN OF WATER MAN

# THE PLAN OF WATER MANAGEMENT FOR

		Operational Timelines
Estimated	Estimated	
Beginning	Completion	
Date	Date	Task
	Fee Calculation	on Requirements
Jan. 1	Mar. 1	Send Farm Unit from last year to current year Farm Unit
		Manager and obtain new Farm Unit information. Following is
		a summary of information needed:
		Irrigated lands including acreage.
		Irrigation type (sprinkler/flood) for each parcel.
		Crop (if flood irrigated).
		Ditch ownership.
		Wells on property.
		Surface water credit to be leased.
Jan. 1	Mar 1	Obtain County Assessor's Records containing following
		information:
		Parcel identification #'s.
		Land ownership/addresses.
		Land value codes/acres.
Jan 1	Mar 1	Obtain following information from Ditch companies:
		Individual/corporation Ditch share ownership.
		Total Ditch shares.
Feb. 1	April 1	Obtain following data for previous year from Division of Water
		Resources:
		Ditch diversion and well pumping records.
		➤ All well structure #'s within Subdistrict.
		Well locations.
		Well ownership of each well.
		Aquifer from which well withdraws water.
April 1	May. 1	Subdistrict personnel will calculate all fees for each Subdistrict
		irrigated parcel identified by a County Assessor's PIN.

		Operational Timelines
Estimated	Estimated	
Beginning	Completion	
Date	Date	Task
	Annual Repla	1
Mar. 1	Apr. 1	Obtain April 1st forecast of the NRCS for April through September flows of all forecasted streams in Division 3.
Mar. 1	Apr. 1	Obtain Division Engineer's April 1st estimate of the annual
1120027	1201	flow of the Rio Grande at the index gauging station near Del
		Norte.
Mar. 1	Apr. 1	Obtain Division Engineer's April 1st estimate of the annual
	1	flow of the Conejos River and its tributaries at the index
		gauging station near Mogote plus the April to October flows of
		the Los Pinos and San Antonio Rivers at the index gauging
		station near Ortiz.
Mar. 1	Apr. 1	Obtain total diversions by ditches diverting water into the
		Subdistrict for the prior water year.
Mar. 1	Apr. 1	Obtain groundwater levels in the Subdistrict (as collected by the
		Rio Grande Water Conservation District, the Subdistrict and the
		USGS during the previous 12 months).
Mar. 1	Apr. 1	Obtain the amount of annual recharge credit estimated during
		the Plan Year from the exercise of the decrees in Cases No. W-
		3979 (Rio Grande Canal), W-3980 (as amended) (San Luis
		Valley Irrigation District), 79CW91 (Rio Grande Water Users
		Association, 01CW20 (Rio Grande Water Users Association),
		96CW45 (Prairie Ditch Company), 96CW46 (San Luis Valley
		Canal Company), and any decrees subsequently entered
		granting recharge credit for water diverted from the Rio Grande
		into the Subdistrict (collectively the "recharge decrees").
Mar. 1	Apr. 1	Obtain an estimate of total annual Closed Basin Project
		production for the Plan Year and the portion thereof allocated
		to the Rio Grande and/or the Subdistrict and available for
		replacement of injurious well depletions.
Jan. 1	Apr. 1	Obtain the amount and sources of replacement water available
		to the Subdistrict for the Plan Year including flow and storage
		water rights.

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		Operational Timelines	
Estimated	Datiment of		
Estimated	Estimated		
Beginning	Completion	77. 1	
Date	Date	Task	
Mar. 1	Apr. 1	Develop a list of all active Subdistrict wells as defined by the	
		Plan of Water Management containing the well ID number,	
		permit number, and/or decree number. The Subdistrict Well	
		Database Appendix attached to the Plan of Water Management	
		will be updated by April 1 of each year by the Subdistrict.	
Mar. 1	Apr. 1	Develop a tabulation of the total groundwater withdrawals from	
		Subdistrict Wells during the prior Plan Year.	
Mar. 1	Apr. 1	Develop a tabulation showing the location of all previously	
		irrigated lands that have been fallowed as part of the Plan of	
		Water Management through CREP or Subdistrict programs.	
		The list of fallowed land within the Subdistrict will be updated	
		to reflect any changes from the prior Plan Year.	
Feb. 1	Apr. 1	Collect Farm Unit Data including the number of irrigated acres	
		within the Subdistrict, cropping patterns, irrigation method,	
		surface water source and amount (including ditch company and	
		number of shares and where share is allocated), groundwater	
		source and amount (including well ID number, permit number	
		and/or decree number), and Surface Water Credit exchange,	
		trade, lease or sale information.	
Jan. 1	Apr. 15	All information collected in this section will be reported to the	
		State Engineer and Division Engineer.	
	<b>Estimating Stream Depletions for Current Plan Year</b>		
	Response functions derived from the current version of the Rio Grande		
	Decision Support System Groundwater Model, as revised and updated (unless		
	and until superseded) will be used to calculate estimated stream depletions.		
	The following steps will be required to accomplish this task:		
Feb. 1	Apr. 1	Quantification of Subdistrict Well Pumping:	
		<ul><li>Estimate pumping by Subdistrict Wells based upon</li></ul>	
		anticipated hydrologic conditions for the current Plan	
		Year using historical data from well meter records or	
		other reasonable methods.	

		<b>Operational Timelines</b>
Estimated Beginning Date	Estimated Completion Date	Task
		<ul> <li>Estimate total groundwater consumption as:         <ul> <li>Consumption for Sprinklers = Total Pumping x 0.83.</li> <li>Consumption for Flood Irrigation = Total Pumping x 0.60.</li> <li>Consumption for other uses e.g. M&amp;I = fact specific determination for each such user that contracts with the Subdistrict to provide well replacement.</li> <li>These presumptive consumption factors may be revised by amendment to Appendix 1, and with the approval of the State Engineer.</li> </ul> </li> </ul>
Jan. 1	Apr. 1	Estimate recharge that offsets groundwater consumption based upon anticipated hydrologic conditions for the Plan Year using historical diversion records and terms of recharge decrees.
Mar. 1	Apr. 1	Estimate Net Groundwater Consumption by Subdistrict Wells during the Plan Year as the total estimated groundwater consumption from Subdistrict Well pumping minus estimated decreed recharge that offsets groundwater consumption.
Mar. 1	Apr. 1	Lag Net Groundwater Consumption (Depletions) to surface streams using Response Functions to determine stream depletions on a monthly basis.
Mar. 1	Apr. 1 Use of RGDS	Add to current Plan Year's calculated stream depletions, all lagged stream depletions from prior Plan Years' pumping under the Plan of Water Management that will result in stream depletions during the current Plan Year.  S Groundwater Model to Derive Response Functions
Mar. 1	Apr. 1	Determination of stream depletions for purposes of deriving response functions by use of the Subdistrict No. 1 Response Functions:

		Operational Timelines
Estimated Beginning Date	Estimated Completion Date	Task
	Procedure an	d timelines to replace stream depletions
Mar. 1	Apr.1	The monthly depletions by stream reach calculated by the Response Functions shall be replaced in a manner that prevents injury, unless the owner of the injured vested water right has either waived any claim of injury, or agreed to accept compensation for the injury in a form other than water. As described below, replacement may also involve deliveries to Compact gages in order to reduce a Compact curtailment resulting in making water available to vested water rights in priority.
Apr. 1	Nov. 30	Replacement to the Rio Grande and Conejos  During months when there is a compact curtailment on the Rio Grande or Conejos River at a rate of flow (in c.f.s.) equal to or greater than the rate of injurious stream depletions, then the following procedures shall be followed:  Direct flow replacement water made available by the Subdistrict, including its share of Closed Basin Project production, shall be credited against any then occurring injurious stream depletions.  The Subdistrict may operate forbearance agreements to replace injurious stream depletions by means other than providing water to replace stream depletions. Such agreements will operate according to the terms of the agreement.  The Subdistrict may provide water in storage for release by the Division Engineer. The Division Engineer may direct the release of the stored water on a daily basis, may release water early in the season in slug releases to enable the

Estimated Beginning Date  Date  Task  Curtailment to be lowered for the season, or many elect to retain the water in storage and reduce to compact curtailment by an amount equal to the injurious stream depletions resulting from Subdistrict well pumping, and use the water in storage for subsequent compact delivery.  The Division Engineer shall recognize any over delivery of replacement water in a given month as a Rio Grande Compact delivery in the month that it occurs and reduce the Compact curtailment in the following month or months an amount equal to the accrued replacement credit of the Subdistrict.  Transit losses assessed by Division Engineer shall be based upon the best available data on actual transit losses.  During any month or part of a month when there is no compact curtailment, or the rate or location of compact curtailment is less than the then occurring injurious stream depletions resulting from Subdistrict Well pumping, the Subdistrict will deliver replacement water to the injuriously affected water rights by delivery to the Rio Grande or Conejos River, at or above the location the stream depletions, water necessary to replace the then-occurring injurious stream depletions.  Apr. 1  Nov. 30  Replacement to other streams  The monthly depletions by stream reach calculated by the Response Functions will be replaced in a manner that prevents injure, unless the owner of the injured vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any claim of injurent vested water right has either waived any			Operational Timelines
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Estimated Beginning Date	Estimated Completion Date	Task	
Bute		mation to be submitted to the State and Division Engineers to	
	V -	the Subdistrict's ability to replace stream depletions during	
	the Plan Year	, <u> </u>	
Jan. 1	Apr. 1	Agreements between the Subdistrict and the Division Engineer	
	r	to administer water that is available to replace stream	
		depletions.	
Jan. 1	Apr. 1	Agreements between the Subdistrict and the ditch and reservoir	
		companies that will provide water and/or storage space to the	
		Subdistrict.	
Jan. 1	Apr. 1	Leases, deeds, loans, options, substitute supply plans, decrees,	
		change of water rights, operational plans used to actually make	
		replacements, including estimated costs of activities.	
Jan. 1	Apr. 1	Documents to prove that funds necessary to accomplish the	
		above are available.	
	Data submitte	ed to the State Engineer to demonstrate the annual	
	replacement	will occur and that it will prevent injurious stream depletions.	
Apr. 1	Nov. 30	The Subdistrict will cooperate with the Division Engineer and	
		the Ditch and Reservoir companies to collect:	
		Diversion and stream flow records, Water	
		Commissioner Daily Sheets, ditch and reservoir daily	
		accounting sheets, Rio Grande Compact records	
		showing deliveries and curtailment (10-day Reports)	
		and any other records necessary to account for when and	
		where the replacement water was released to the	
		affected stream.	
Jan. 1	Dec. 31	The Subdistrict shall tabulate the data and submit it to the	
		Division Engineer monthly during the Plan Year.	
		Data Regarding the Hydraulic Divide	
Mar. 1	Apr. 1	As part of the annual replacement plan the Subdistrict will	
		submit to the Division Engineer a list of wells that it monitored	
		during the prior Plan Year for purposes of determining the	
		existence and location of the Hydraulic Divide. The list will	

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		Operational Timelines	
Estimated	Estimated		
Beginning	Completion		
Date	Date	Task	
		identify the monitoring wells by Well ID Number and location.	
		The Subdistrict will also submit measurement data for each	
		such well from the past Plan Year.	
Mar. 1	Apr. 1	The consulting engineer for the Subdistrict will submit a	
		summary report analyzing the data and describing the current	
		condition and location of the Hydraulic Divide.	
	Data Regardi	ng Groundwater Storage	
Mar. 1	Apr. 1	As part of the annual replacement plan the Subdistrict will	
		submit to the Division Engineer the tabulation of the five-year	
		running average of Unconfined Aquifer storage levels. The	
		tabulation will be based on Davis Engineering Service's	
		Unconfined Aquifer Storage Study and will incorporate data	
		from the prior five Plan Years.	
	Disclosure of	Fallowed Lands Information	
Mar. 1	Apr. 1	As part of its annual replacement plan the Subdistrict will	
		submit a copy of its required annual reporting to the USDA-	
		FSA that includes the number of acres enrolled in CREP, the	
		amount of money allocated to producers and the amount of	
		water retired for those lands enrolled in CREP.	
Mar. 1	Apr. 1	As part of its annual replacement plan the Subdistrict will	
		provide a tabulation of total acreage within the Subdistrict	
		boundaries that is participating in any fallowing program and a	
		map showing the location of all fallowed lands.	
	Year-End Rev	view of Plan Year Operation	
Nov. 1	Mar 1	After the end of the irrigation season, and prior to the	
		submission of the next year's annual replacement plan, the	
		Subdistrict will recalculate the stream depletions caused by	
		Subdistrict well pumping in the Plan Year using actual water	
		use data and the appropriate Response Function to determine	
		the adequacy of replacement operations during the Plan Year.	
		The District will submit its report to the Division Engineer in a	
		form approved by the Division Engineer. If the amount of	

<b>Operational Timelines</b>		
Estimated Beginning	Estimated Completion	
Date	Date	Task
		replacement water provided by the Subdistrict was not sufficient to replace the injurious stream depletions during the Plan Year, then prior to the commencement of the next irrigation season the Subdistrict will:  Deliver to the Rio Grande and the Conejos River the amount of any unreplaced injurious stream depletions from the prior Plan Year, and the Division Engineer will administer that water to the Stateline as a Compact delivery for the respective system.  For surface water rights on streams that are not subject to curtailment under the standards of Alamosa-La Jara Water Users v. Gould, any unreplaced injurious stream depletions from the prior Plan Year will be added to the replacement requirements for the current next Plan Year.
	Budget and A	ccounting Plan
Jun. 1	Aug. 1	On or before August 1 of each Plan Year, the Board of Managers of the Subdistrict shall prepare and make available to any interest party a preliminary draft of a proposed budget with all available information describing or justifying the expenditures and revenues contemplated and the specific fees or assessments or other charges for operation of the Subdistrict for the next year.
Aug. 1	Sept. 15	On or before September 15 of each Plan Year, the Board of Managers of the Subdistrict will adopt a detailed final budget, utilizing the previously prepared preliminary budget, concerning the implementation of the Plan during the next calendar year. This budget will be presented to, and included, in the Rio Grande Water Conservation District's annual budget that is submitted for approval by its Board of Directors in October of each year.