

SPECIAL IMPROVEMENT DISTRICT #1 OF THE  
RIO GRANDE WATER CONSERVATION DISTRICT

ANNUAL REPORT FOR THE  
2022 PLAN YEAR

Prepared

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by

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## **Executive Summary**

The Rio Grande Water Conservation District (RGWCD) established Special Improvement District #1 (Subdistrict #1) in 2006. After extensive litigation and appeals over the Plan of Water Management (Plan), and decisions by both the District and the Colorado Supreme Courts in 2010 and 2011, respectively, the Plan was approved. The approved Plan guided the implementation of Subdistrict #1. In spring 2012, the State Engineer's Office (SEO) provided additional guidance regarding the Annual Replacement Plan (ARP).

After SEO approval of the 2012 Annual Replacement Plan for Subdistrict #1, objectors-initiated litigation over the ARP's suitability. On October 29 and 30, 2012, a Court trial was held to address the Subdistrict #1 augmentation plans and subject wells' description and whether Closed Basin Project (CBP) production could be used as a replacement water source. The District Court issued its ruling on the objections on April 10, 2013 approving the ARP, including the use of the CBP production as a replacement water source. Some of the objectors appealed the Court's ruling to the Colorado Supreme Court and arguments in the case were heard on September 30, 2014.

On June 29, 2015, the Colorado Supreme Court ruled in a unanimous opinion that the 2012 ARP's inclusion of Closed Basin Project water as a source of replacement water for depletions caused by Subdistrict groundwater withdrawals was adequate and suitable to prevent injury to senior surface water rights and the inclusion of augmentation plan wells as Subdistrict wells for the purpose of calculating total groundwater depletions did not render the ARP invalid.

On April 15, 2022, the 2022 ARP was finalized and provided to the SEO, the District Court and the public. On May 3, 2022, the SEO approved the 2022 ARP, enabling Subdistrict #1 staff to move forward remedying injurious depletions. The Plan and the Court require a detailed Annual Report (AR) to document Subdistrict #1's compliance with the decrees and the approved 2022 ARP. The AR is due on or before March 1, 2023.

The SEO and the Colorado Division of Water Resources (CDWR) generate much of the data required to be included in the AR. The data describes the various aspects of water use throughout the 2022 ARP year related to Subdistrict #1, including streamflow records, diversion records and Subdistrict #1 well groundwater withdrawal records.

Although the ARP year is not yet complete, Subdistrict #1 has accomplished a majority of the ARP's goals. This AR details how Subdistrict #1 has remedied all injurious depletions at the time the injury occurred, in the place the injury occurred and for the total amount of injury for the 2022 ARP year. This AR complies with the terms and conditions of the court decrees by permitting public access to data related to projections in the 2022 ARP and to Subdistrict #1's actual operations. It also details the outcomes of Subdistrict #1's actions during the 2022 ARP year.

Subdistrict #1 proceeded with proactive and conservative practices during the 2022 ARP Year to ensure senior water rights were not injured by groundwater withdrawals from Subdistrict #1 Wells. The 2022 AR describes the data, methodology and calculations that verify injurious depletions were remedied as required.

This AR confirms that Subdistrict #1 provided more replacement water to the Rio Grande than was necessary for the Plan Year to properly make the river “whole.” The AR also describes Subdistrict #1’s attempts to reduce groundwater withdrawals through use of the Conservation Reserve Enhancement Program (CREP) and other conservation programs.

The AR data is accurate as of March 1, 2023 but will not be complete until the end of the 2022 ARP year, April 30, 2023.

## **1.0 CALCULATIONS OF ACTUAL PLAN YEAR 2022 RIOGRANDE DEPLETIONS FROM SUBDISTRICT WELLS**

This section of the 2022 AR presents data showing both projected and actual calculated depletions to the Rio Grande caused by groundwater withdrawals from Subdistrict #1 Wells. Depletions are calculated by a CDWR supplied Response Function spreadsheet that outputs total depletions for the ARP year and a breakdown of monthly depletions for three reaches of the Rio Grande.

Projected depletions were presented in the 2022 ARP completed on April 15, 2022. Forecasted calendar year flow through the Rio Grande near Del Norte gage (index gage) was the primary bench mark used to make projections. From this forecast, estimates of total well groundwater withdrawals, canal diversions and annual recharge credit were prepared and utilized in the depletion spreadsheet. In the following subsections, actual river depletions have been calculated for 2022 using recorded values for groundwater withdrawals, canal diversions and resulting recharge credit.

Full definitions of terms and the processes used in this section are included in the ARP and the Plan. As the AR is a summary report of the success of the ARP, definitions and extensive explanations are not repeated herein.

### **1.1 STREAM FLOW FORECASTS COMPARED TO ACTUAL FLOWS**

#### **1.1.2 2022 Stream Flow Forecasts**

The Division Engineer for Water Division 3 elected to use a hybrid of both the NRCS Forecast and the National Weather Service Forecast for the Rio Grande gage near Del Norte (index gage) as well as the Conejos River system in 2022. Data collected from the Division 3 Engineer’s Preliminary Rio Grande Compact Ten Day Report on March 31, 2022 estimated the flow for the period April – September 2022 for the index gage to be 375,000 ac-ft. Also, from the data contained in the report, 75,000 ac-ft is added to the April – September hybrid forecast for the

index gage to obtain the projected annual flow. Therefore, using the Division Engineer’s March 31, 2022, hybrid forecast and the additional 75,000 ac-ft, the projected annual flow of the Rio Grande at the index gage was 450,000 ac-ft.

### **1.1.3 2022 Actual Stream Flow**

Based on the Division 3 Engineer’s Rio Grande Compact Ten Day Report for the end of 2022, see Appendix H of the Appendices, the actual annual flow of the Rio Grande through the index gage was 445,000 ac-ft. The actual annual flow of the Conejos River through the index gage was 270,000 ac-ft, also included in Appendix H.

## **1.2 TOTAL GROUNDWATER WITHDRAWALS**

Based on information obtained from the Division of Water Resources on February 24, 2023, the actual metered groundwater withdrawals from Subdistrict #1 Wells included in the 2022 ARP was 208,844 ac-ft for Irrigation Year 2022. Projected groundwater withdrawals for 2022, as contained in the 2022 ARP, was 220,000 ac-ft. All Subdistrict #1 metered groundwater withdrawals in 2022 was used for irrigation with the vast majority through center pivot sprinklers and only a small amount applied to flood irrigation.

A comprehensive ARP Well List was included in the 2022 ARP to identify the wells DWR permitted to continue operating in accordance with the PWM and the Groundwater Rules. This ARP Well List is necessary for DWR to identify which wells the Subdistrict has included. Further, the ARP Well List is a required input into the RGDSS Groundwater Model and Response Functions.

All metered withdrawals for new WDIDs are being included in calculations for the Subdistrict’s 2023 Plan Year replacement obligations.

WDID’s 2012935 and 2014575 have been contracted in and accepted to be added as commercial use wells.

There were four replacement wells added, 2011570 replaced 2011339, 2014567 replaced 2005470, 2014627 replaced 2010016 and 2706350 replaced 2705007.

## **1.3 ANNUAL RECHARGE CREDIT**

Recharge credit is available to four canals/ditches that divert from the Rio Grande into Subdistrict #1 in accordance with their respective decrees. This recharge credit is used as an offset to groundwater consumption in accordance with the respective decrees and the method used to calculate depletions. The canals/ditches and their decrees are listed in the following tabulation:

<u>Canal/Ditch</u>	<u>Decree</u>
Rio Grande Canal	Case No. W-3979
San Luis Valley Irrigation District	Case No. W-3980
Prairie Ditch	Case No. 96CW45
San Luis Valley Canal	Case No. 96CW46

The actual 2022 annual calculated recharge credits for these four canals/ditches within Subdistrict #1 were prepared using end of irrigation year 2022 canal diversion records obtained from Division of Water Resources and information obtained directly from canal companies and irrigators. The actual recharge credit for each canal is adjusted through the following steps, which results in total consumable credit.

Information used in calculating total consumable credit for each canal/ditch was prepared using the entire irrigated service areas of each canal/ditch. Then the totals were reduced based on the best estimated percentages of total pro rata ditch shares located within the Subdistrict # 1 boundary provided by each ditch company. The following percentages were used:

- Rio Grande Canal = 92.38%
- San Luis Valley Irrigation District = 100%
- Prairie Ditch = 99.20%
- San Luis Valley Canal = 78.82%

Further, it was necessary to reduce the totals by the actual consumptive use attributable to surface water used directly through sprinklers and for flood irrigation. This data was obtained from irrigators during 2022 and is listed below:

- 1) Rio Grande Canal: Surface water through sprinklers = 3,915.40 ac-ft and surface water applied to flood irrigation = 253.34 ac-ft.
- 2) San Luis Valley Irrigation District: Surface water through sprinklers = 0.54 ac-ft and surface water applied to flood irrigation = 0 ac-ft.
- 3) Prairie Ditch: Surface water through sprinklers = 108.69 ac-ft and surface water applied to flood irrigation = 0 ac-ft.
- 4) San Luis Valley Canal: Surface water through sprinklers = 331.15 ac-ft. and surface water applied to flood irrigation = 0 ac-ft.

Using the total consumable water derived from each of the four canals/ditches in accordance with the procedure described in the Court’s ruling in Case Numbers 06CV64 & 07CW52 and reducing those totals using the above information and the approved estimated consumption for sprinkler (83%) and flood irrigation (60%), the following tabulation shows the actual resulting total of individual canal/ditch consumable credits and the total for all of the systems.

**Table 1.1**  
**Calculated Recharge Decree Credits for Subdistrict #1 During 2022**  
**Prepared February 24, 2023**  
 (All units in ac-ft)

	Rio Grande Canal	San Luis Valley I.D.	Prairie Ditch	SLV Canal	Totals
Total Consumable	99,203.13	7,600.60	1,919.00	6,490.02	115,212.76
% Within Subdistrict #1	92.38%	100%	99.20%	78.82%	
Total Consumable Within Subdistrict #1	91,643.86	7,600.60	1,903.65	5,115.43	106,263.54
Surface Water Through Sprinklers @83%	-3,249.78	-0.45	-90.21	-274.85	-3,615.29
Surface Water Used for Flood @60%	-253.34	0	0	0	-253.34
<b>Totals</b>	<b>88,140.74</b>	<b>7,600.15</b>	<b>1,813.44</b>	<b>4,840.58</b>	<b>102,394.91</b>

Therefore, the calculated consumable credit under the four recharge decrees for 2022 is 102,394.91 ac-ft.



## 1.4 CLASSIFICATION AS “WET,” “AVERAGE,” OR “DRY” YEAR

Response Functions generated from the RGDSS Groundwater Model Phase 6P98 were used in determining stream depletions as described in this section based on three types of weather conditions during the ARP year. These conditions are “Wet,” “Average,” or “Dry.” A year is classified as being “Wet,” “Average,” or “Dry” based on the amount of Net Groundwater Consumptive Use for Subdistrict wells using the following criteria<sup>(1)</sup>:

**Table 1.2**  
**Definition of “Wet,” “Average,” or “Dry” Year**

Year Type	Net Groundwater Consumptive Use (ac-ft/yr)
Wet	Less than 10,000
Average	Between 10,000 and 180,000
Dry	Greater than 180,000

Reference: Updated information obtained March 20, 2012 from James R. Heath, P.E., Division of Water Resources Lead Modeler.

The Net Groundwater Consumptive Use for the 2022 ARP year was 69,764 ac-ft as shown in Table 1.3. Referencing the ranges in Table 1.2, the 2022 ARP year is classified as a “Average” year.

## 1.5 2022 STREAM DEPLETIONS

Stream depletions attributable to the groundwater withdrawals from Subdistrict #1 Wells have been calculated using the Response Function spreadsheet produced by the RGDSS Groundwater Model Phase 6P98 (RGDSS Model) as operated by DWR. The first step in calculating depletions is to update Table 1.3 to derive annual Net Groundwater Consumptive Use. For reference, values for previous years 2011- 2021 are included in the table along with the values for 2022. Notes are included at the bottom of the table to provide a description of the calculations. For 2022, the values in columns 5 through 9 are obtained from Table 1.1, above.

The Net Groundwater Consumption Use data for 2022 is applied to the Response Function spreadsheet contained in Table 1.4 to calculate stream depletions for the 2022 Plan Year and lagged depletions into the future.

The Net Groundwater Consumptive Use derived in Table 1.3 is input into Column 3 of Table 1.4 for year 2022. The annual stream depletions resulting from Subdistrict #1 groundwater withdrawals for the respective reaches of the Rio Grande and the total are shown in columns 4 through 7 of Table 1.4.

Table 1.5 is an output from the Response Function spreadsheet that divides the annual total depletions into monthly replacement obligations for the three impacted reaches of the Rio Grande. This table lists the 2022 Plan Year stream depletions as required under the Plan and Decree.

**Table 1.3**  
**Estimated Net Groundwater Consumptive Use**  
 (Units in ac-ft)

Year	Subdistrict #1 Total					Recharge that Offsets Groundwater Withdrawals					Net Groundwater Consumptive Use
	Irrigation Pumping to Center Pivots	Irrigation Pumping to Flood Irrigation	Other Pumping	Other Consumptive Use Ratio	Groundwater Consumption	Rio Grande Canal	San Luis Valley Irrigation District	Prairie Ditch	San Luis Valley Canal	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
2011	324,117	889	5,010	0.66	272,834	83,801	9,981	8,325	8,204	110,310	162,524
2012	260,435	71	4,436	0.68	219,214	54,870	6,748	4,795	3,620	70,034	149,180
2013	230,432	1,136	4,611	0.61	194,772	84,919	5,477	4,227	4,782	99,404	95,368
2014	238,067	1,400	3,252	0.61	200,429	110,566	28,596	14,133	12,777	166,072	34,357
2015	206,455	1,536	3,781	0.56	174,390	122,980	34,685	15,139	15,608	188,412	-14,022
2016	237,624	1,635	3,516	0.56	200,172	125,562	32,064	12,873	14,396	184,894	15,279
2017	236,937	1,786	3,746	0.55	199,792	138,112	31,813	15,292	16,043	201,260	-1,468
2018	264,022	2,167	3,895	0.61	222,809	42,895	2,136	1,924	2,140	49,096	173,713
2019	213,248	1,937	3,376	0.57	180,086	132,121	45,852	22,196	22,619	222,788	-42,702
2020	244,345	796	3,276	0.52	204,975	58,838	10,230	5,879	5,467	80,413	124,562
2021	208,626	139	3,280	0.58	175,146	78,861	11,330	6,748	7,906	104,845	70,301
<b>2022</b>	<b>205,178</b>	<b>28</b>	<b>3,637</b>	<b>0.51</b>	<b>172,159</b>	<b>88,141</b>	<b>7,600</b>	<b>1,813</b>	<b>4,841</b>	<b>102,395</b>	<b>69,764</b>
<b>Avg</b>	<b>239,124</b>	<b>1,127</b>	<b>3,818</b>	<b>0.58</b>	<b>201,398</b>	<b>93,472</b>	<b>18,876</b>	<b>9,445</b>	<b>9,867</b>	<b>131,660</b>	<b>69,738</b>

Explanation of Columns

- (1) Calendar Year
- (2) Determined from metered groundwater withdrawals
- (3) Determined from metered groundwater withdrawals
- (4) Determined from metered groundwater withdrawals
- (5) Calculated as  $0.83 \times \text{Col2} + 0.60 \times \text{Col3} + \text{Col4} \times \text{Other Consumptive Use Ratio}$  depending on the year (Col5 of Net CU Worksheet)  
 (0.83 and 0.60 are the consumptive use ratios of total pumping associated with sprinkler and flood irrigation practices, respectively)
- (6) - To be determined by analysis of historic diversions and recharge decrees
- (9) Calculated as  $\text{Col6} + \text{Col7} + \text{Col8} + \text{Col9}$
- (11) Calculated as  $\text{Col5} - \text{Col10}$

Note: Table 2.4 – Column for "Other Pumping" was added as Column (4) and an explanation was added to the Column reference numbers, equations, and the descriptions were also adjusted accordingly

**Table 1.4**  
**Estimated Historical and Projected Net Stream Depletions from Groundwater**  
**Withdrawals in Subdistrict #1**  
(Units in ac-ft)

Year	Rio Grande near Del Norte Stream Gage (Apr-Sep)	Net Groundwater Consumptive Use (Jan-Dec)	Annual Net Stream Depletions (May-Apr) <sup>a)</sup>				Total
			Rio Grande Del Norte-Excelsior	Rio Grande Excelsior-Chicago	Rio Grande Chicago-State Line		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1970	561,150	101,275	225	341	-116		450
1971	389,397	135,541	420	714	-169		965
1972	373,031	169,393	619	1,069	-223		1,465
1973	755,509	38,851	479	878	-91		1,266
1974	270,942	220,567	2,366	1,325	-285		3,406
1975	730,848	23,753	2,294	1,028	-137		3,185
1976	512,997	65,760	2,016	938	-164		2,790
1977	163,635	240,127	3,825	1,513	-347		4,991
1978	340,660	155,492	3,828	1,627	-328		5,127
1979	886,617	11,835	3,093	1,222	-153		4,162
1980	672,668	63,873	2,726	1,100	-189		3,637
1981	310,945	170,010	2,681	1,423	-300		3,804
1982	572,474	36,314	2,286	1,211	-156		3,341
1983	578,510	32,273	2,031	994	-138		2,887
1984	652,637	40,219	1,869	902	-137		2,634
1985	864,564	2,568	1,648	717	-87		2,278
1986	865,371	-37,341	-90	669	16		595
1987	907,650	109,992	43	858	-115		786
1988	346,087	177,158	593	1,246	-226		1,613
1989	407,389	169,478	883	1,485	-243		2,125
1990	424,033	88,971	886	1,371	-166		2,091
1991	529,567	46,509	826	1,117	-117		1,826
1992	415,482	67,128	861	1,040	-136		1,765
1993	577,831	-21,380	-193	847	-6		648
1994	444,629	100,660	-115	924	-117		692
1995	734,492	-68,610	-2,899	893	140		-1,866
1996	313,441	205,238	-960	1,265	-111		194
1997	781,596	-1,949	-462	906	9		453
1998	466,821	112,457	-70	1,003	-122		811
1999	799,489	-50,972	-2,204	916	110		-1,178
2000	312,094	213,180	-208	1,325	-142		975
2001	655,233	65,822	415	1,184	-91		1,508
2002	96,717	322,490	3,276	1,932	-378		4,830
2003	261,300	234,308	5,234	2,191	-388		7,037
2004	431,675	126,966	4,837	1,967	-322		6,482
2005	682,540	70,356	4,059	1,661	-234		5,486
2006	411,656	119,657	3,660	1,626	-273		5,013
2007	593,239	23,116	3,064	1,311	-155		4,220
2008	623,333	49,201	2,700	1,148	-166		3,682
2009	513,058	-4,448	2,119	911	-90		2,940
2010	453,063	76,286	2,013	968	-166		7 2,815
2011	415,182	162,524	2,118	1,318	-267		3,169

2012	328,382	149,180	2,108	1,519	-265	3,362
2013	344,435	95,368	1,994	1,427	-210	3,211
2014	518,599	34,357	1,805	1,157	-138	2,824
2015	555,700	-14,022	1,077	899	-58	1,918
2016	565,800	15,279	867	737	-65	1,539
2017	573,900	-1,468	819	571	-46	1,344
2018	213,100	173,713	1,204	1,039	-242	2,001
2019	855,000	-42,702	-752	912	37	197
2020	307,800	124,562	-660	985	-109	216
2022	381,197	70,301	-314	957	-83	560
2022	359,200	69,764	-242	914	-90	582
2023			-297	667	-15	355
2024			-220	489	-13	256
2025			-153	385	-10	222
2026			-109	312	-9	194
2027			-69	249	-8	172
2028			-40	193	-8	145
2029			-14	150	-6	130
2030			-19	121	-4	98
2031			-40	103	-2	61
2032			-56	89	-1	32
2033			-60	77	0	17
2034			-44	59	0	15
2035			-13	40	-1	26
2036			-10	30	0	20
2037			-15	15	1	1
2038			-9	5	0	-4
2039			57	0	-2	55
2040			24	0	0	24
2041			0	0	0	0
Avg 2001-2022	460,914	87,300	1,882	1,243	-173	2,952
Avg 2001-2010	472,181	108,375	3,138	1,490	-226	4,401
Post Plan Depletion			-1,085	2,984	-78	1,819

a) Estimated net stream depletions shown in this table are greater than the stream depletions that potentially cause injury to surface water rights.

Explanation of Columns

- (1) Year
- (2) Rio Grande near Del Norte Gage streamflow in ac-ft for the NRCS streamflow forecast period of April through September. The streamflow value for 2022 is from the December 6, 2022 Rio Grande Compact Ten Day Report
- (3) Net Groundwater Consumptive Use (NetGWCU) for January through December. NetGWCU values for 2001 through 2010 were taken from the RGDSS Groundwater Model output. NetGWCU values for 2012 through 2022 were calculated using well meter data, diversion data, and irrigated acreage information
- (4) Net Stream Depletions in the Rio Grande Del Norte to Excelsior Ditch reach for the plan year (May through April) in ac-ft
- (5) Net Stream Depletions in the Rio Grande Excelsior Ditch to Chicago Ditch reach for the plan year (May through April) in ac-ft
- (6) Net Stream Depletions in the Rio Grande Chicago Ditch to the State Line reach for the plan year (May through April) in ac-ft
- (7) Total Net Stream Depletions columns (4+5+6) in ac-ft

**Table 1.5**  
**Subdistrict #1 Monthly Net Stream Depletions for Plan Year**  
**Calculated March 1, 2023**  
 (Units in ac-ft)

Stream Reach	Subdistrict #1 Total												Total
	2022								2023				
	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Rio Grande Del Norte-Excelsior	-36.1	-32.6	-21.0	-12.0	-10.6	-12.9	-14.5	-13.0	-19.3	-18.6	-25.7	-25.8	<b>-242.1</b>
Rio Grande Excelsior-Chicago	90.4	69.9	56.5	53.9	52.7	60.8	79.3	88.3	91.2	87.6	99.9	83.6	<b>914.1</b>
Rio Grande Chicago-State Line	-0.4	-14.0	-16.3	-5.1	-0.8	-9.3	-1.0	2.9	-3.9	-9.9	-13.1	-19.1	<b>-90.0</b>
<b>Total</b>	<b>54</b>	<b>23</b>	<b>19</b>	<b>37</b>	<b>41</b>	<b>39</b>	<b>64</b>	<b>78</b>	<b>68</b>	<b>59</b>	<b>61</b>	<b>39</b>	<b>582</b>

As indicated in lower right-hand corner of Table 1.5, the calculated total depletions that will impact the Rio Grande during the 2022 ARP year, due to both past groundwater withdrawals and the 2022 groundwater withdrawals, using the RGDSS Groundwater Model Phase 6P98 Response Function are **582** ac-ft. The locations of the depletions and monthly quantities are also tabulated in Table 1.5.

If wells that were groundwater withdrawals in 2022 were shut off today, there would be a continuing impact to the river for approximately 19 years according to the RGDSS Groundwater Model Phase 6P98. This is the calculated time required to recover to conditions that existed before well groundwater withdrawals started. The volume of water required to replace depletions during this recovery period is called Post-Plan Stream Depletions. Table 1.6 shows that the total post-plan stream depletions are calculated to be **1,867** ac-ft. The portion of the total depletions impacting each of the three designated reaches of the river is also included in Table 1.6.

**Table 1.6**  
**Subdistrict #1 Post-Plan Stream Depletions**  
 (Units in ac-ft)

Years (May-Apr)	Rio Grande Del Norte-Excelsior	Rio Grande Excelsior-Chicago	Rio Grande Chicago-State Line	Total
2023-2041	-1,039	2,984	-78	1,867

Table 1.7 lists both the April 2022 projected obligations and the February 2023 final calculated obligations to compare projected versus actual calculated depletions for the 2022 ARP Year.

**Table 1.7**  
**Subdistrict # 1 Monthly Stream Replacement Obligation for 2022 ARP year**  
 (Units in ac-ft)

Month	Reach #1				Reach # 2				Reach # 3				TOTALS	
	4/2021 Projection	2/2022 Calculation	4//2022 Projection	2/2023 Calculation	4/2021 Projection	2/2022 Calculation	4/2022 Projection	2/2023 Calculation	4/2021 Projection	2/2022 Calculation	4//2022 Projection	2/2023 Calculation	Projected Totals	Calculated Totals
2022-3	-32	-42			121	102			-15	-13			74	47
2022-4	-29	-39			101	86			-22	-20			50	27
2022-5			-36	-36			91	91			-1	-0.4		
2022-6			-32	-33			71	70			-15	-14		
2022-7			-18	-21			56	57			-19	-16		
2022-8			-8	-12			54	54			-9	-5		
2022-9			-7	-11			54	53			-3	-1		
2022-10			-10	-13			64	61			-13	-9		
2022-11			-12	-15			88	79			-2	-1		
2022-12			-11	-13			96	88			3	3		
2023-1			-17	-19			98	91			-4	-4		
2023-2			-17	-19			94	88			-10	-10		
2023-3			-24	-26			107	100			-14	-13		
2023-4			-24	-26			89	84			-20	-19		
<b>Total 2021 Projected</b>	-60				222				37					
<b>Total 2022 Calculated</b>		-81				187				-33				
<b>Total 2022 Projected</b>			-216				961				-107		<b>638</b>	
<b>Total 2023 Calculated</b>				<b>-243</b>				<b>914</b>				<b>-89</b>		<b>582</b>

\* Total depletions entered in Table 1.7 have been rounded off to the nearest whole number.

The April 13, 2022 calculations used for the 2022 ARP Year Projections were based on the then best estimates of both stream flow and groundwater withdrawals. DWR’s end-of-year meter and diversion records for 2022 groundwater withdrawals for Subdistrict Wells and surface water diversions into the Closed Basin under the Recharge Decrees resulted in an actual net-groundwater withdrawal less than the calculations used for the 2022 ARP. Application of the actual net-groundwater withdrawals shows that, as of the date of this report, Subdistrict #1 has supplied **41.50** ac-ft more than the actual calculated injurious depletions by the approved Response Functions. Subdistrict #1 expects that CDWR will work with Subdistrict #1 to address this over-replacement to assure that, while all injurious depletions within Colorado are remedied, Subdistrict Wells replace or otherwise remedy depletions only in the minimum amount necessary to avoid injury to senior surface water rights and that any over-replacements will not accrue to the benefit of downstream States under the Rio Grande Compact and Colorado will continue to beneficially consume all of the water it is entitled to under the Compact.

## 2.0 TOTAL DIVERSION BY DITCHES

Table 2.1 shows the ditch service areas that have diversions in Subdistrict #1. The diversions shown are total irrigation water for the ditch for the 2022 irrigation year, but only a portion is delivered within Subdistrict #1.

**Table 2.1  
Ditch Service Areas with Diversions in Subdistrict #1  
Total Ditch Diversions for the 2022 Irrigation Year**

WDID	DITCH NAME	Diversions in ac.-ft	Subdistrict Year
2000546	BILLINGS D	4,405.69	2022
2000556	BUTLER IRR D	1,588.00	2022
2000627	EXCELSIOR D	24,266.00	2022
2000631	FARMERS UNION CNL	15,883.00	2022
2000699	KANE CALLAN D	2,692.80	2022
2000736	MCDONALD D	6,070.90	2022
2000798	PRAIRIE D	7,344.00	2022
2000812	RIO GRANDE CNL	120,738.00	2022
2000814	RIO GRANDE D 2	1,587.20	2022
2000829	SAN LUIS VALLEY CNL	7,590.00	2022
2000833	SCHUCH SCHMIDT D	1,086.40	2022
2700502	BIEDELL D NO 10	2,923.10	2022
2700503	BIEDELL D NO 2	9.90	2022
2700518	GREEN D NO 1	0.00	2022
2700522	HOME D NO 1	2,818.10	2022
2700523	JOHNNIE SMITH D NO 1	79.80	2022
2700533	MCLEOD D NO 3	94.60	2022
2700537	MOODY AND HEAD D	0.00	2022
2700538	OMNIBUS D	1,932.90	2022
2700545	SHOWN D	596.20	2022
2700551	WHITE D	0.00	2022
2700553	WILSON D NO 4	0.00	2022
2700684	LA MAGOTE D NO 2	0.00	2022
2700714	MCLEOD D NO 4 & 5	161.40	2022

Notes: New Structure 2700714 replaced (2700534) McLeod No. 4 and (2700535) McLeod No. 5

### **3.0 TOTAL IRRIGATED ACRES**

Each irrigation season, the RGWCD conducts a field survey of the irrigated acreage on the Valley floor to record crop types grown. Table 3.1 is the summary of “irrigated acres, cropping patterns and irrigation methods” on parcels that are part of 2022 Subdistrict #1 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 2022 Subdistrict #1 Farm Units. Only those fields that had entries updated during the 2022 crop survey were used in this analysis. The crop information and acreage from the irrigated agriculture shapefile attribute tables was compiled and is shown in Table 3.1.

**Table 3.1  
Cropping Patterns within Subdistrict #1 for 2022**

Crop Type	Total Acres	Sprinkler	LEPA	Flood
Alfalfa	25,672	25,062	503	107
Barley	30,711	30,711	-	-
Canola	4,263	4,138	125	-
Carrots	986	986	-	-
Corn	173	122	-	51
Cover Crop	15,372	15,305	-	67
CREP	10,107	10,107	-	-
Fallow	16,420	16,010	101	309
Grain	4,601	4,393	208	-
Grass Hay/ Pasture	2,825	1,721	-	1,104
Hemp	247	247	-	-
Lettuce	1,213	1,213	-	-
Oats	1,129	1,129	-	-
Potatoes	47,892	47,618	267	6
Quinoa	59	59	-	-
Sudan Grass Hay	3,773	3,733	-	-
Triticale	92	92	-	-
Vegetables	793	793	-	-
<b>Total</b>	<b>166,328</b>	<b>163,480</b>	<b>1,204</b>	<b>1,644</b>

Information collected for 2022 Subdistrict #1 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 on Subdistrict #1 2022 Farm Units is included in Appendix B and represents the “surface water source” for Subdistrict #1.

The Plan timeline requires Subdistrict #1 to request well meter readings prior to the end of the irrigation season and, therefore, the meter readings were requested as of October 1, 2022. The diversion amounts for the Subdistrict #1 Wells is for the portion of the 2022 irrigation season through November 1, 2022. The groundwater withdrawals covered by augmentation plans during 2022 were not included in the total groundwater withdrawals used to calculate Recharge Credit in Section 4, below.

#### **4.0 SURFACE WATER CREDIT**

The amount of Surface Water Credit (SWC) exchanged both 2021 and 2022, between Farm Units and applied against the 2022 Variable Fees was 20,576.12 ac-ft.

At the time of submission of this AR, the estimated amount of 2021 carry-over SWC carried forward into 2022 that was not utilized and therefore extinguished by rule was 8,776.76 ac-ft. This number may change during the appeal process in 2023.



## 5.0 CLOSED BASIN PROJECT PRODUCTION-PROJECTED AND ACTUAL

According to accounting from the Bureau of Reclamation (BOR) Alamosa Field Division, Closed Basin Division, San Luis Valley Project, Colorado, the production of the CBP delivered to the Rio Grande was 8,110.0 ac-ft during the calendar year 2022. The 2022 ARP projected the production of the CBP to be 8,500.0 ac-ft.

## 6.0 AMOUNTS AND SOURCES OF REPLACEMENT WATER

The remaining amounts and sources of water available for the remainder of the 2022 ARP year and 2023 ARP is: 16,879.75 ac-ft.

**Table 6.1**  
**Remaining Balances of Replacement Water Acquired by**  
**Subdistrict #1 for 2022**

<b>Water Right(s) Name</b>	<b>Quantity (ac-ft)</b>	<b>Water Previously Controlled By:</b>	<b>Decree(s)</b>	<b>Current Location</b>
<b>Williams Creek Squaw Pass</b>	<b>134.8</b>	Navajo Development	CA73, CA308, W-1869-78	Rio Grande Reservoir
<b>Williams Creek Squaw Pass</b>	<b>56.49</b>	San Luis Valley Irrigation District	CA73, CA308, W-1869-78	Rio Grande Reservoir
<b>SLVI District Tabor</b>	<b>45.1</b>	San Luis Valley Irrigation District		Rio Grande Reservoir
<b>Pine River Weminuche Pass</b>	<b>1,000.0</b>	SLV Water Conservancy District	CA 1248-B, 84CW62, 94CW62	Rio Grande Reservoir
<b>Treasure Pass Trans-basin Diversion</b>	<b>730.76</b>	Evelyn Underwood and Patti Cook	CA 0308	Rio Grande Reservoir
<b>Treasure Pass Trans-basin Diversion</b>	<b>100</b>	Sid Klecker	CA 0308	Rio Grande Reservoir
<b>Piedra River TM, Piedra Water Rights</b>	<b>500</b>	Colorado Parks and Wildlife	W-3549	Rio Grande Reservoir
<b>2012-1279.8 shares @ .944af/share</b>	<b>1,252.11</b>	Santa Maria Reservoir Co.		Santa Maria & Continental Reservoirs
<b>2013 – 3235.8 shares @ .72af/share</b>	<b>2,328.8</b>	Santa Maria Reservoir Co.		Santa Maria & Continental Reservoirs
<b>2014 – 3320.8 shares @ 1.288af/share</b>	<b>4,278.2</b>	Santa Maria Reservoir Co.		Santa Maria & Continental Reservoirs
<b>2015 - 3095.8 shares @ 1.86 af/share</b>	<b>5,568.2</b>	Santa Maria Reservoir Co.		Santa Maria & Continental Reservoirs
<b>2016-1645.0 shares @ 0.968 af/share</b>	<b>885.29</b>	Santa Maria Reservoir Co.		Santa Maria & Continental Reservoirs
<b>Total Transbasin and Santa Maria</b>	<b>16,879.75</b>			

<b>2022 Forbearance Agreements</b>				
	<b>Contract</b>	<b>Expected Yield</b>		
<b>Rio Grande Canal</b>	<b>900</b>	0		
<b>San Luis Valley Canal</b>	<b>400</b>	0		
<b>Commonwealth</b>	<b>500</b>	0		
<b>Farmers Union</b>	<b>1,000</b>	0		
<b>Centennial Ditch</b>	<b>No ac-ft limit</b>	0		
<b>Excelsior Ditch</b>	<b>1,000</b>	0		
<b>Monte Vista Canal</b>	<b>300</b>	0		
<b>Rio Grande Lariat Ditch</b>	<b>500</b>	0		
<b>Prairie Ditch</b>	<b>100</b>	0		
<b>Closed Basin Project Allocation as of March 1, 2022</b>	<b>214.5</b>			Closed Basin Project
<b>Total Water Available</b>				

## **6.1 2022 Plan Year Forbearance Agreements**

Pursuant to section 37-92-501(4)(b)(I)(B), C.R.S., Subdistrict #1 reached an agreement with the Rio Grande Canal, Centennial Ditch, Excelsior Ditch, Lariat Ditch, Prairie Ditch, Commonwealth, Monte Vista Canal, Farmers Union, and San Luis Valley Canal whereby these canals accept that, subject to the specific provisions of the forbearance agreement, injury to its water rights resulting from the withdrawal of groundwater by Subdistrict #1 Wells can be remedied by means other than providing water to replace stream depletions when one of these canals are the calling right on the Rio Grande.

Based upon climate projections and historical diversion patterns, the agreements with these canals are predicted to result in a reduction of 1,200 to 1,800 ac-ft of the amount of water Subdistrict #1 would otherwise have to supply to the Rio Grande-Del Norte to Excelsior Ditch headgate reach. During the 2022 Plan Year, the Board of Managers of Subdistrict #1 chose not to exercise any forbearance with any canal for projected well depletions from May 1<sup>st</sup> through November 1<sup>st</sup> due to abundant replacement water in storage located in the Rio Grande and Santa Maria Reservoir facilities. All projected well depletions on the Rio Grande from Subdistrict #1 wells during that time frame were remedied by replacement water releases to the Rio Grande from those facilities.

## **7.0 OPERATION OF THE SUBDISTRICT #1 WATER REPLACEMENT PLAN**

Subdistrict #1 stream reach depletions were as shown in table 1.5 above. Winter time depletions starting in November through the remaining 2022 ARP year depletions will be replaced by Closed Basin Project releases to the river and water in storage.

The reaches, amounts and time that these depletions occurred are described in Appendix A. These releases of water were performed under the provisions contained in section 37-87-103, C.R.S.

The most current RGDSS Groundwater Model runs and Response Functions do not predict depletions in amounts above the minimum threshold established by the Water Court, Water Division No. 3 in Case Nos. 2006CV64 and 2007CW52 caused by the withdrawal of groundwater by Subdistrict #1 Wells to streams other than the Rio Grande. Therefore, Subdistrict #1 did not make replacements to any stream other than the Rio Grande.

## **7.1 DESCRIPTION OF MONTHLY OPERATIONS**

### **JANUARY**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of January on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On January 1st, Subdistrict No. 1 began utilizing Closed Bason Project production to the Rio Grande in the amount of 2.69 ac-ft./ day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in January, but rather accretions back to the river within these reaches.

### **FEBRUARY**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of February on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2021 ARP. On February 1<sup>st</sup>, the Subdistrict's Replacement Water Plan resumed with Closed Basin Project (CBP) allocation releases to the Rio Grande replacing Stream Reach 2 of Subdistrict No.1 projected stream reach obligations. Bureau of Reclamation staff attempted to keep the release rate from the CBP canal into the Rio Grande to at least 2 ac-ft./day to meet the daily obligation for the Subdistrict and were successful in doing so for the entire month of February.

### **MARCH**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of March on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On March 1st, Subdistrict No. 1 began utilizing Closed Bason Project production to the Rio Grande in the amount of 2.427ac-ft./ day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in March, but rather accretions back to the river within these reaches.

### **APRIL**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of April on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On April 1st, the ditches on the Rio Grande began diverting water for the 2022 Irrigation Season. In anticipation of this, Subdistrict No. 1 began a release from the Santa Maria water pool stored in the Santa Maria Reservoir in the amount of 1.67 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in April, but rather accretions back to the river within these reaches.

## **MAY**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of May on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On May 1st, the ditches on the Rio Grande continued diverting water for the 2022 Irrigation Season. Subdistrict No. 1 began a reservoir release on April 30th from the Santa Maria water pool stored in the Santa Maria Reservoir in the amount of 1.74 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in May, but rather accretions back to the river within these reaches.

## **JUNE**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of June on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On June 1st, the ditches on the Rio Grande continued diverting water for the 2022 Irrigation Season. Subdistrict No. 1 continued releasing from the Santa Maria water pool stored in the Santa Maria Reservoir in the amount of 0.8 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in June, but rather accretions back to the river within these reaches.

## **JULY**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of July on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On July 1st, the ditches on the Rio Grande continued diverting water for the 2022 Irrigation Season. Subdistrict No. 1 continued releasing from the Santa Maria water pool stored in the Santa Maria Reservoir in the amount of 0.61 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in July, but rather accretions back to the river within these reaches.

## **AUGUST**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of August on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On August 1st, the ditches on the Rio Grande continued diverting water for the 2022 Irrigation Season. Subdistrict No. 1 continued releasing from the Santa Maria water pool stored in the Santa Maria Reservoir in the amount of 1.19 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in August, but rather accretions back to the river within these reaches.

## **SEPTEMBER**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of September on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On September 1st, the ditches on the Rio Grande continued diverting water for the 2022 Irrigation Season. Subdistrict No. 1 continued releasing from the Santa

Maria water pool stored in the Santa Maria Reservoir in the amount of 1.433 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in September, but rather accretions back to the river within these reaches.

## **OCTOBER**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of October on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On October 1st, the ditches on the Rio Grande continued diverting water for the 2022 Irrigation Season. Subdistrict No. 1 continued releasing from the Santa Maria water pool stored in the Santa Maria Reservoir in the amount of 1.322 ac-ft. / day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in October, but rather accretions back to the river within these reaches.

## **NOVEMBER**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of November on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On November 1st, the irrigation season ended and the reservoirs went into storage. Subdistrict No. 1 began utilizing Closed Bason Project production to the Rio Grande in the amount of 2.464ac-ft./ day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in November, but rather accretions back to the river within these reaches.

## **DECEMBER**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of December on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On November 1st, the irrigation season ended and the reservoirs went into storage. Subdistrict No. 1 began utilizing Closed Bason Project production to the Rio Grande in the amount of 2.738ac-ft./ day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in December, but rather accretions back to the river within these reaches.

## **JANUARY**

Under the direction of the Division 3 Division Engineer and the District 20 Water Commissioner, Subdistrict No. 1 continued replacing projected stream reach depletions on the Rio Grande for the month of January on a daily basis pursuant to the amounts presented in the approved Subdistrict's 2022 ARP. On January 1st, Subdistrict No. 1 began utilizing Closed Basin Project production to the Rio Grande in the amount of 2.478 ac-ft./ day to begin replacing projected depletion obligations in Stream Reach 2. There were no positive depletions in Stream Reach 1 or 3 identified in the response function in January, but rather accretions back to the river within these reaches.

### **Remaining 2022 ARP Year**

Because of the timing of this report, Subdistrict #1 will continue the same protocol to replace stream reach depletions for all three stream reaches of the Rio Grande on a monthly basis with CBP allocation for the months of February and March of 2023 or until the start of the next irrigation season. Subdistrict

#1 will follow the direction of the Division 3 Division Engineer when the irrigation season begins for replacing stream reach depletions on the Rio Grande with trans-mountain reservoir releases and CBP allocation that Subdistrict #1 is in control of for the remaining period of the 2022 ARP year through April 30, 2023.

Table 7.1 illustrates the replacement water accounting for Subdistrict #1 during the 2022 ARP year on a monthly basis.

**Table 7.1  
Subdistrict #1 Monthly Stream Replacement Obligation for the 2022 ARP Year with  
Replacement Source to Fulfill Obligation. (Units in ac ft)**

<b>Stream Reach Obligation</b>	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023	February 2023	March 2023	April 2023
SR-1	-31.55	-28.51	-36.3	-31.5	-18.2	-8.3	-7.3	-10.19	-12.2	-11	-17.299	-17	-24.1	-24.4
SR-2	121.38	100.81	90.8	70.8	56.1	54.3	53.5	63.79	87.6	96	98.399	94.1	107.2	89.3
SR-3	-14.62	-22.21	-0.6	-15.2	-19	-9.1	-2.6	-12.58	-1.5	2.9	-4.299	-10.4	-13.5	-20.0
<b>Total</b>	<b>75.21</b>	<b>50.1</b>	<b>54</b>	<b>24</b>	<b>18.9</b>	<b>36.9</b>	<b>42.99</b>	<b>40.99</b>	<b>73.92</b>	<b>87.9</b>	<b>76.81</b>	<b>67</b>	<b>69</b>	<b>45</b>
<b>Replacement</b>														
SR-1 RGR TM Water														
Forbearance Compact Subst.														
SMRC Water CBP Allocation	-31.55	-28.51	-36.3	-31.5	-18.2	-8.3	-7.3	-10.19	-12.2	-11	-17.299	-17	-24.1	-24.4
SR-2 RGR TM Water														
Forbearance Compact Subst.														
SMRC Water CBP Allocation	121.38	100.81	90.8	70.8	56.1	54.3	53.5	63.79	87.6	96	98.399	94.1	107.2	89.3
SR-3 RGR TM Water														
SMRC Water CBP Allocation	-14.62	-22.21	-0.6	-15.2	-19	-9.1	-2.6	-12.58	-1.5	2.9	-4.299	-10.4	-13.5	-20.0
Creditable CBP Production at Rio Grande	373	924	946	757	613	247	268	273	752	1,057				

Explanation of Abbreviations:

- \*RGR TM Water: Rio Grande Reservoir Pool Trans-mountain Water
- \*Forbearance: No Forbearance with any of the 9 Ditches in agreement with Subdistrict #1 for the 2022 Plan Year
- \*SMRC Water: Subdistrict #1 Santa Maria Reservoir Company (SMRC) Reservoir Water
- \*Compact Subst.: Subdistrict #1 SMRC Reservoir Water Exchange with Rio Grande Compact Storage
- \*CBP Allocation: Closed Basin Project Allocation for Subdistrict #1

Notes:

March and April stream depletions have not yet been delivered but are calculated by the response function using final 2022 CDWR data.

## **Summary**

Pursuant to the 2022 ARP for Subdistrict #1 of the RGWCD and by the direction of the SEO, Subdistrict #1 has met and will continue to meet the requirements for replacing injurious depletions to the Rio Grande attributable to groundwater withdrawals by Subdistrict #1 Wells for the 2022 ARP

year. The projected depletions on the Rio Grande for all three stream reaches in the 2022 ARP for Subdistrict #1 approved by the SEO for the 2022 Plan Year was 638 ac- ft. The actual amount of depletions for all three stream reaches on the Rio Grande is 582 ac-ft.

Subdistrict #1 will have overpaid 41.5 acft in replacement water for actual stream depletions on the Rio Grande during the 2022 Plan Year.

Beginning May 1, 2022, Subdistrict #1 has met stream depletion obligations for all 3 stream reaches of the Rio Grande with replacement water releases from Rio Grande Reservoir and the Closed Basin Project on a daily basis. As documented with supporting data from the Colorado Division of Water Resources Division 3 Office, Subdistrict #1 staff did not identify any day during the term of the 2022 ARP year that the daily and monthly stream depletion obligation for any of the stream reaches was not met.

## **8.0 CENTENNIAL DITCH COMPANY AGREEMENT**

After the last three years of operation, Subdistrict #1 did not feel it necessary to continue the Centennial Ditch Agreement to carry replacement water to calling water rights below the Excelsior Ditch diversion dam during the 2022 Plan Year. Even with below average river flows experienced on the Rio Grande the last 5 years, the river below the Excelsior Ditch diversion dam has been a live stream servicing calling water rights in Stream Reaches 2 and 3. Subdistrict #1 will monitor the lower stream reaches in the future and reinstate this agreement if necessary.

## **9.0 FALLOWING OF SUBDISTRICT #1 LANDS - TEMPORARY AND PERMANENT**

### **9.1 Conservation Reserve Enhancement Program**

Subdistrict #1 continued to sign up contractors into the Conservation Reserve Enhancement Program (CREP) in an attempt to fallow up to 40,000 acres of previously irrigated lands on a long-term or permanent basis during the 2022 Plan Year. Sign-up into CREP in Subdistrict #1 is ongoing now with the approval of the new Farm Bill in 2018. As of the time of this report, Subdistrict #1 has a total of 92 CREP contracts that include 11,107 acres and 201 irrigation wells that have approximately 15,189 ac ft of recent groundwater withdrawals annually in Subdistrict #1. Of the total acres enrolled, 4,210 acres are enrolled into a permanent CREP contract term while 6,054 acres are enrolled into a temporary CREP contract term. The USDA FSA found all but one existing 2014 thru 2018 fiscal year CREP contracts in Subdistrict #1 to be in cropping and water use compliance at the end of the 2022 fiscal year, September 30, 2022, and all were paid their annual rental payments as well as any additional

incentives provided by the Subdistrict. The one CREP contract that was not in compliance has been revoked both at the FSA level and with RGWCD Subdistrict #1. The Subdistrict's incentive and annual payments alone were approximately \$854,995.19. A map of the locations of these CREP parcels is included in Appendix F.

Subdistrict #1 established a Four-Year Fallow program in 2018. A total of 2,109.75 acres were fallowed with the requirement that zero water will be applied to the field in 2022. Over the term of the contract the producer is able to rotate which field is set out of production, allowing a different parcel to be dormant each year if the producer chooses. This ultimately will help with overall soil health, flexibility for the producer and other benefits such as allowing grazing on field to control weeds. The amount of groundwater withdrawals eliminated due to the fallowing of these fields is approximately 3,692 ac-ft of water.

## **9.2 Permanent Land Purchases**

Subdistrict #1 is still actively pursuing opportunities to acquire water rights. In 2017 the District on behalf of the Subdistrict purchased the West Medano Ranch. The Ranch consists of approximately 7,996 acres with 1,000 shares of the San Luis Valley Canal, 7 quarters of the San Luis Valley Irrigation District, three irrigation groundwater wells and several small stock water wells.

Based on total head-gate diversions for the Rio Grande Canal, SLV Canal and Farmers Union during the irrigation season the Subdistrict with their 2,007.5 shares of surface water diverted approximately 2,109.13 ac-ft towards recharge to the unconfined aquifer on the White, McConnell, Lacy and West Medano Ranch properties during the irrigation season. Subdistrict #1 did not use the wells located on these parcels for any purpose in 2022. The RGWCD staff will continue experimenting with different aquifer recharge strategies within CDWR regulation on these properties to increase surface water recharge efficiencies. A map identifying the locations of the permanent land purchases acquired by the RGWCD for Subdistrict #1 is included in Appendix G.

In 2022 the Subdistrict offered to purchase irrigation wells through the Well Purchase Program. Sixteen irrigation wells were purchased and approximately 1,093 acft of groundwater withdrawals will be retired.

## **10.0 PLANS FOR AUGMENTATION**

The Subdistrict #1 Well list includes some wells that are involved in a decreed plan for augmentation (Augmentation Plan Wells). The plans for augmentation vary in their conditions, but they coordinate surface rights and other wells in administration of their respective plan. They are included in the list for fee determination, and if any pre-existing groundwater right portion of their groundwater withdrawals are not covered by their plans, such groundwater withdrawals are subject to Subdistrict #1 fees and Subdistrict #1 will, and in fact did, replace injurious depletions due to these groundwater withdrawals. See Appendix I for the augmentation plan well list as classified for Subdistrict #1 purposes and a location map of the parcels involved in the plans listed below.



## **10.1 Description of Court Approved Plans for Augmentation**

### **Case No. 81CW69, Application of Alan and Dorothy Beard (related case 02CW65, In the Matter of the Application of John Slane)**

The decrees in Cases No. 81CW69 and 02CW65 are actually changes of water rights, not plans for augmentation. The wells operated pursuant thereto have been classified as Augmentation Plan Wells by Subdistrict #1 for accounting purposes with the Division 3 Engineer.

The decree in Case No. 81CW69 specifically found that the Applicants sought to change their method of irrigation whereby the water diverted by the San Luis Valley Irrigation District and attributable to the Applicants' land that was historically directly applied by flood irrigation, may be first used to recharge the unconfined aquifer and then withdrawn by a well for the irrigation by center pivot sprinkler of crops in the NE¼ and the SE¼ of Section 19, T41N, R10E, N.M.P.M. The decree authorized the Applicants to construct two wells, Beard Irrigation Wells No. 2 and 3, into the unconfined aquifer to withdraw the water recharged for the irrigation of the described lands.

Because this decree is a change in method of irrigation, not a plan for augmentation, the wells are not Augmentation Plan Wells and may be properly included within the Amended Plan and the ARP. Because the wells' withdrawals are limited by the quantity of water recharged, there is no net depletion to the aquifer system and no resulting stream depletions the Amended Plan is required to replace.

The decree in Case No. 02CW65 changed the point of diversion of Well Permit # 9343-F, decreed as Well No. 2 in Case No. W-1505, WDID 2705546, to Beard Irrigation Well No. 3, Permit # 44595-F WDID 2905547 decreed in Case No. 81CW69. The total quantity of water changed is a long-term average of 32 ac-ft per year of historical consumptive use. The water right decreed to Well No. 2 in Case No. W-1505 is a decreed right to the use of groundwater, the injurious depletions from which are replaced pursuant to the Amended Plan and ARP. Because neither Case No. 81CW69 nor Case No. 02CW65 is a plan for augmentation, Beard Irrigation Wells No. 2 and 3 are Subdistrict Wells and the lands irrigated by these wells are Subdistrict Lands within the ambit of the Amended Plan.

### **Case No. 81CW72, Application of Ray and Sally Slane**

Case No. 81CW72, like Case No. 81CW69, involved an Application for a change in the manner of application of irrigation water allocated to lands located within the San Luis Valley Canal service area from direct flood irrigation to recharge and subsequent irrigation by means of a center pivot sprinkler. The decree specifically finds that the application seeks a change of water rights to change the method of irrigation. Accordingly, this is not a plan for augmentation and the well authorized by this decree is not an Augmentation Plan Well. However, the Division Engineer and Subdistrict #1 consider it as such for accounting purposes.

The decree in Case No. 81CW72 authorized the construction of Slane Irrigation Well No. 3, Well Permit # 47246-F, WDID 2006662, to be located in the center of the NE¼ of Section 2, T40N, R10E, N.M.P.M. Withdrawals by that well, like the wells authorized under the decree in Case No. 81CW69, are limited by

the amount of recharge credit accrued in accordance with the terms of the decree. Well WDID 2014257, Well Permit # 58972-F is an alternate point of diversion for Slane Irrigation Well No. 3 and is subject to the same limitations as Slane Irrigation Well No. 3 and is also a Subdistrict Well. Because these are not Augmentation Plan Wells, the lands irrigated by these wells are Subdistrict Lands within the ambit of the Amended Plan.

In 2019, the provisions of this case were not invoked and the owner instead elected to receive surface water credit which was used to offset groundwater withdrawals that occurred within the Subdistrict #1 Farm Unit. The owner received surface water credit for all 200.0 shares dedicated to the augmentation plan in the amount of 270 ac-ft to offset groundwater withdrawals that occurred within the Subdistrict #1 Farm Unit for 2019.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=1949350&page=1>

### **Case No. 99CW09, Application of Off Ranches, Inc.**

The application in this case sought an alternate point of diversion for Well #1, Case W-914, Permit #1970-R, WDID 2009876, and sought to increase the number of acres that could be irrigated by Well #1 and its alternate point of diversion. The original well, in combination with water available from Applicant's shares in the Rio Grande Canal Water Users' Association and the Santa Maria Reservoir Company, historically had been used to flood irrigate the SW $\frac{1}{4}$  of

Section 30, T40N, R7E, N.M.P.M. The decree granted the alternate point of diversion well and limited the combined annual withdrawal from the original well and the alternate point of diversion well WDID 2013756 to 132.2 ac-ft per year for irrigation of the SW $\frac{1}{4}$  of Section 30.

The plan for augmentation portion of the decree authorizes the withdrawal of additional water beyond 132.2 ac-ft through these two wells for purposes of irrigation on the SW $\frac{1}{4}$  of Section 30, based upon recharge of Applicant's surface water rights. The "augmentation credits" allowed under the decree are limited to the Applicant's historical consumptive use from its *first use* of Rio Grande Canal (as opposed to reuse and successive use recognized by the Rio Grande Canal's recharge decree) and Santa Maria Reservoir Company water for irrigation of this land. Because the diversion of 132.2 ac-ft by Wells #1 and #1A is considered in the decree to be the existing groundwater right of Well #1 and is not included in the plan for augmentation, the injurious depletions from that use are remedied pursuant to the Amended Plan. Accordingly, these wells are Subdistrict Wells and the irrigated lands are Subdistrict Lands.

In 2017, a Variable Fee was assessed to the first 132.2 ac-ft of groundwater withdrawals that was not covered by the plan for augmentation, and no Surface Water Credit was given for the surface water consumed under the plan for augmentation. These wells are also part of a larger Farm Unit and therefore must be included in the Amended Plan and ARP to correctly compute the Surface Water Credit available to offset the Variable Fee assessed against the Farm Unit.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=358993&page=1>

### **Case No. 99CW25, Application of James Bradley**

This case involved a change of water right to obtain an alternate point of diversion well and a plan for augmentation to increase the amount of water that could be withdrawn through both wells to irrigate the NW¼ of Section 31, T40N, R7E, N.M.P.M. The wells involved are Well No. 2, Case No. W-1153, Permit # 727-R, WDID 2010235, and its alternate point of diversion, Well No. 2A, WDID 2013884. The decree limits the annual withdrawals from Wells No. 2 and 2A to 150 ac-ft annually under the existing groundwater right of Well No. 2. The decree allows these wells to withdraw no more than 150 ac-ft annually, or 510 ac-ft in any 10 consecutive years pursuant to the plan for augmentation.

The plan for augmentation portion of the decree authorizes the Applicant to recharge the water available to its shares in the Rio Grande Canal and Santa Maria Reservoir Company. The decree allows the applicant to increase the total annual withdrawals from the well for irrigation of the NW¼ of Section 31 to the extent of the Allowable Pumping Credit calculated under the terms of the decree. The annual groundwater withdrawals credit is based upon the historical irrigation consumptive use that resulted from the *first use* of the surface water.

Because Well Nos. 2 and 2A had an existing groundwater right limited to 150 ac-ft annually and not included in the plan for augmentation, the injurious stream depletions from that groundwater withdrawals are remedied pursuant to the Amended Plan. This means that Well No. 2 and 2A are Subdistrict Wells, and the irrigated land is Subdistrict Land within the ambit of the Amended Plan.

The unconsumed portion of any recharge of the surface water rights can be used as a surface water credit to offset the calculation of any Variable Fee assessed against groundwater withdrawals of up to 150 ac-ft under the existing groundwater right for Well Nos. 2 and 2A. Accordingly, Well Nos. 2 and 2A and their associated surface water right also must be included in the Amended Plan for purposes of correctly calculating the surface water credit and Variable Fees for the Farm Unit.

This augmentation plan is currently enrolled in a 4 Year fallow program, the well associated with this augmentation plan will not be used from 2020-2024.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=359154&page=1>

### **Case No. 00CW19, Application of Roger and Julia Ensz**

This plan for augmentation involves Well No. 2, Case No. W-2058, Permit #1843-R, WDID 2005728; Well No. 2-A, Case No. 82CW119, Permit # 21996-F, WDID 2005729; and Well No. 3, Case No. W-2058, Permit # 9503-F, WDID 2011878. Wells No. 2 and 3 were historically used for the irrigation of the SW¼ of Section 8, T40N, R7E, N.M.P.M. The decree found that the Applicants' 25 shares in the Rio Grande Canal and 45 shares in the Santa Maria Reservoir Company historically had been used to irrigate up to 300 acres in the E½ of Section 7, T40N, R7E, N.M.P.M. The application sought to increase withdrawals through Wells No. 2 and 3 in order to use the wells to irrigate the E½ of Section 7. The decree authorized that use based on recharging of the water available from the Applicants' shares in the Rio Grande Canal and the Santa Maria Reservoir Company. The increased amount of water that can be withdrawn through the wells for irrigation in the E½ of Section 7 is based upon the quantity of water recharged as calculated by procedures set forth in the decree.

The decree states that it does not limit the use of the wells for the irrigation of the SW $\frac{1}{4}$  of Section 8, and authorizes the use of the wells for irrigation of the E $\frac{1}{2}$  of Section 7 under the plan for augmentation when augmentation credit is available. Wells No. 2 and 3 divert water under their own decreed groundwater rights for irrigation of the SW $\frac{1}{4}$  of Section 8, the injurious depletions from which are remedied pursuant to the Amended Plan. Accordingly, the wells are Subdistrict Wells and the SW $\frac{1}{4}$  of Section 8 is Subdistrict Land. The E $\frac{1}{2}$  of Section 7 is treated as Non-Benefitted Subdistrict Land and is assessed no Subdistrict fees. These wells also are part of a Farm Unit, and therefore it is necessary to include these wells in the Amended Plan and the ARP to correctly calculate surface water credits available to offset the Farm Unit's Variable Fees.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=709008&page=1>

#### **Case No. 00CW42, Application of James and Donna Cooley**

This case was an application for a change of water rights and plan for augmentation. The Applicants sought to use water from one share in the Prairie Ditch Company associated with the W $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8, T39N, R10E, N.M.P.M. for direct irrigation and/or as a source of augmentation for two existing irrigation wells. The two existing irrigation wells are Well #1, Case No. W-245, Permit #12178-R, WDID 2008692; and Permit # 57923-F, WDID 2014243. Those two wells were permitted only for use on the E $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8.

The plan for augmentation allows the wells to irrigate the W $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8 by pumping against credits accumulated from surface water recharge from one share in the Prairie Ditch. The decree contains the manner for quantification of the recharge credits and limits groundwater withdrawals by the wells for irrigation of the W $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8 to the amount of accumulated augmentation credit. Nothing in the decree limits the exercise of the decreed water rights for the wells for the irrigation of the E $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8.

The E $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8 is Subdistrict Land, and the use of these wells to irrigate that land makes them Subdistrict Wells. The injurious stream depletions from the irrigation of the E $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 8 are remedied pursuant to the Amended Plan as implemented by the ARP. The W $\frac{1}{2}$  SW $\frac{1}{4}$  of Section 8 is treated as Non-Benefitted Subdistrict Land and is not assessed Subdistrict fees. In addition, the SE $\frac{1}{4}$  of section 8 is part of a larger Farm Unit, so it is necessary to include the entire SE $\frac{1}{4}$  in the Amended Plan and ARP for purposes of determining surface water credit available to offset the Farm Unit's Variable Fees.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=360867&page=1>

#### **Case No. 07CW64, Application of JDS Farms, LLC and Allen Entz**

This case involves Well No. 2, Case No. W-635 WDID 2009403, Permit #1534-F; Well No. 4, Case No. W-635 WDID 2009405, Registration #1297-R; and Well #1, Case No. W-485 WDID 2009165, Registration #19606-R. The decree finds that Wells No. 2 and 4 in Case No. W-635 were historically used in conjunction with one share of Prairie Ditch for the irrigation of the E $\frac{1}{2}$  SE $\frac{1}{4}$  of Section 7, T39N, R9E, N.M.P.M. Well #1, Case No. W-485 was historically used in

conjunction with two shares of the Prairie Ditch for the irrigation of the W½SE¼ of Section 7. The plan for augmentation sought authorization for the three wells to irrigate the entire SE¼ of Section 7 and to divert more groundwater than the historical use by these wells.

The decree quantifies the combined historical groundwater use of the three wells for irrigation under their own priorities as approximately 160 ac-ft. The decree authorizes groundwater withdrawals of more than 160 ac-ft based on surface water recharge to the unconfined aquifer and a calculation of a recharge credit pursuant to a formula set forth in the decree. The recharge credit is based on the historical consumptive use from the *first use* of the surface water.

These wells are Subdistrict Wells, and the SE¼ of Section 7 irrigated by these wells is Subdistrict Land because the wells withdraw groundwater under their decreed water rights, the injurious depletions from which are remedied pursuant to the Amended Plan. The owners of these wells have not exercised their rights under the plan for augmentation, and therefore the wells have been treated solely as Subdistrict Wells. No Variable Fee will be assessed for groundwater withdrawals under the plan for augmentation, and no surface water credit will be given for surface water consumed by the plan for augmentation. Because these wells are part of two separately owned Farm Units, it is also necessary to include the land and wells in the Amended Plan and the ARP for purposes of calculation of surface water credits available to offset the Farm Units' Variable Fees.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=2082833&page=1>

#### **Case No. 82CW17, Application of SRS Ranch, Inc.**

This case involves an application for change of water rights and a plan for augmentation. The Applicant owned approximately 946 acres comprised of Section 23 and the S½ of Section 22 and the north portion of Section 27, T40N, R6E, N.M.P.M. The land was historically served with water from the Rio Grande Canal, the Midland Ditch, and irrigation Wells No. 2, 4, and 5, Case No. W-713. The application proposed to plug the three existing wells and to construct five replacement wells, one each in the center of the NE¼, NW¼, SE¼, and SW¼ of Section 23 and the center of the SE¼ of Section 22 all in T40N, R6E, N.M.P.M. At the time the application was filed, the Applicant used the three original wells to operate five center pivots irrigating all of Section 23, the S½ of Section 22, and a portion of Section 27 using both groundwater and surface water rights. The decree granted the proposed change of water rights allowing the construction of the five wells as replacement wells and new points of diversion for the water rights decreed to the original three wells on the ranch. The court approved the plan for augmentation conditioned upon the Applicant's continued ownership and recharge of the surface water available to its shares in the Rio Grande Canal and the Midland Ditch. All groundwater withdrawals from the 5 wells is to be fully augmented by the recharge of the surface water shares identified in the decreed plan of augmentation and should not create net depletions from their operations.

The replacement wells are Well #1R, Permit # 37045-F, WDID 2008188; Well No. 2R, Permit # 30339-F, WDID 2008189; Well No. 3R, Permit # 41845-F, WDID 2008190; Well # 4R, Permit # 37047-F, WDID 2008191; and Well No. 5R, Permit # 3032-F, WDID 2008192. These wells and the lands they irrigate are in three separate ownerships.

The quarter section served by Well #1R is separately owned and was treated as Non-Benefitted Subdistrict Land with no Subdistrict fees assessed in 2019. This quarter section is part of a larger Farm Unit.

Well No. 3R and the quarter section it irrigates are also separately owned and are included in a larger Farm Unit. In 2019 this land was treated as Non-Benefitted Subdistrict Land, and no Subdistrict fees were assessed on this land.

Well Nos. 2R, 4R, and 5R, and the lands irrigated thereby are separately owned. These wells and the lands irrigated are not part of a larger Farm Unit. This land is treated as Non-Benefitted Subdistrict Lands, and no Subdistrict fees are assessed on this land.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=705848&page=1>

For the 2022 ARP Year, the Division Engineer approved the operation of these wells under the Subdistrict #1 ARP, with certain terms and conditions. During the 2022 ARP Year these wells operated solely under the Subdistrict #1 ARP and the decreed plan for augmentation was not operated. The Subdistrict accounted for all groundwater withdrawals from these wells and provided the appropriate remedy for injurious depletions in the same manner as Subdistrict Wells.

#### **Case No. 89CW45, Application of Monte Vista PCA**

This case is a change of water rights and plan for augmentation that changed surface water rights in the Excelsior Ditch and the San Luis Valley Canal historically used, along with groundwater, to irrigate 140 acres in the SE<sup>1</sup>/<sub>4</sub> of Section 34, T39N, R9E, N.M.P.M. The application sought to use the surface water to recharge the unconfined aquifer and then withdraw that water and apply it by center pivot sprinkler to the historically irrigated land. The well historically used on this land is Well No. 5, Case No. W-1181, Permit # R13476-RF, WDID 2006555, located in the center of the SE<sup>1</sup>/<sub>4</sub> of Section 34. The decree authorizes the Applicant to divert additional groundwater through the supplemental well and to recharge to the aquifer an amount equal to the consumptive use of the water diverted by the supplemental well. The supplemental well was constructed pursuant to Well Permit # 38425-F, WDID 2006633. Both Well No. 5 and the supplemental well supply water to the same sprinkler system for the irrigation of the SE<sup>1</sup>/<sub>4</sub> of Section 34.

The supplemental well's groundwater withdrawals is offset by the quantity of water recharged by the Applicant under the decree in 89CW45. Accordingly, the augmented portion, per decree, of the water diverted by the supplemental well, WDID 2006633, was not assessed a Variable Fee for 2019 and was not given surface water credit for the recharged surface water consumed by this practice. Because Well No. 5 had a pre-existing groundwater right that is not included in the plan of augmentation, it is a Subdistrict Well and the injurious stream depletions occurring from the original use are being remedied pursuant to the Amended Plan. Because a Subdistrict Well irrigates this land, the land is Subdistrict Land within the ambit of the Amended Plan.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=711074&page=1>

### **Case No. 96CW5, Application of George Kirkpatrick**

This case authorizes the construction of “auxiliary wells.” The auxiliary wells are permits # 45102-F WDID 2013719, 45103-F WDID 2013721, and WDID’s 2013720, 2013722 and 2008241 to be used in conjunction with existing wells for the irrigation of the SE¼ of Section 6 and the SW¼ of Section 5 in T39N, R10E, N.M.P.M. The “auxiliary wells” are intended to supplement the water supply available from Well #1, Permit # 22543-F, WDID 2008240 located in the center of the SW¼ of Section 5, and Well No. 2, Permit # 22542-F, WDID 2008241 located in the center of the SE¼ of Section 6. Shares in the San Luis Valley Canal Company and the Prairie Ditch Company represent the surface water rights involved. The plan for augmentation operates by allowing the “auxiliary wells” to withdraw a portion of the water recharged under the surface water rights. The decree limits the consumptive use credits under the surface water rights to 50% of the amount diverted to recharge, and limits the consumptive use that can be made of water diverted by the auxiliary wells to the consumptive use credit calculated under the decree.

This land is Subdistrict Land because it is irrigated by Wells #1 and #2 under their pre-existing groundwater rights, the injurious depletions from which are remedied by the Subdistrict pursuant to the Amended Plan as implemented by the ARP. Although the auxiliary wells operate pursuant to a decreed plan for augmentation, they irrigate Subdistrict Land that is also irrigated by Subdistrict Wells. While the auxiliary wells were not assessed a Variable Fee and no surface water credit was given for the water consumed by these wells in 2019, it is necessary to account for these wells in the Amended Plan in order to correctly determine the Farm Unit’s Variable Fee and Surface Water Credit.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=712895&page=1>

### **Case No. 01CW06, Application of Kimothy and De Ann Cooley**

Case No. 01CW06, the application of Kimothy and De Ann Cooley, involves 200 shares of the San Luis Valley Canal that historically have been used for the irrigation of the NE¼ of Section 35, T40N, R10E, N.M.P.M. Prior to 1966, this land was flood irrigated; in 1966 a sprinkler was installed and the San Luis Valley Canal shares were diverted into a holding pond and then used for irrigation through a center pivot sprinkler. The application in Case No. 01CW06 sought to change the manner of irrigation from direct application to the land through the center pivot sprinkler to recharge of the aquifer and then withdrawal of the recharged water through wells supplying the center pivot sprinkler. The decree permits the Applicants to use the 200 shares in the San Luis Valley Canal for direct irrigation and as a source of augmentation for up to 4 wells. WDID Nos. 2014013, 2014014, 2014016 are currently located on the NE¼ of Section 35. The decree authorizes the Applicants to recharge the unconfined aquifer and, pursuant to a formula in the decree, to withdraw a portion of the groundwater so recharged through wells for continued irrigation of the NE¼ of Section 35 by center pivot sprinkler.

Because these wells are limited to the withdrawal of recharge, they create no net depletions from their operations that must be replaced under the Amended Plan. Therefore, they are not considered Subdistrict #1 Wells, and the land irrigated by the wells is treated as Non-Benefitted

Subdistrict #1 Lands and assessed no Subdistrict #1 fees. However, the land and wells are part of a larger Farm Unit, and it is necessary to continue to account for the wells and surface water in the Amended Plan in order to properly calculate the Farm Unit's Surface Water Credit and Variable Fees.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=361006&page=1>

### **Case No. W-3847, Application of Gary Seger**

This case involves an application and decree for conditional alternate points of diversion and a plan for augmentation. The proposed wells in the decree were completed and are being used pursuant to this decree. This operation is not what is commonly described as a plan for augmentation but the court has decreed it as such, so it is included.

The two alternate points of diversion wells are WDID 2005398, Permit # 25360-F, Well number 1A, W-3847 which irrigates the SW $\frac{1}{4}$  S13, T40N, R06E, N.M.P.M. and WDID 2005399, Permit # 25361-F, Well number 2-A, W-3847 which irrigates the NE $\frac{1}{4}$  S13, T40N, R06E, N.M.P.M. both in Rio Grande County, Colorado. These two wells are alternate points to WDID 2005933, Permit # 6885RR, Well Number 1, W-1231, WDID 2005931, Permit # 16941-F, Well Number 1 and WDID 2005932, Permit # 16940-F, Well Number 2 both of W-3325 which also irrigated the SE $\frac{1}{4}$  S13, T40N, R06E, N.M.P.M. and the SW $\frac{1}{4}$  S18, T40N, R07E, N.M.P.M.

All five wells have a combined groundwater withdrawal limitation of 4,480 gpm. The yield of the two wells subject to this decree is to be no more than a maximum of 895 gpm each. Mr. Seger has 45 shares of Rio Grande Canal water and 40 shares of Santa Maria Reservoir Company water to serve the four quarters that are associated with this overall plan. As a condition of the decree in this case, half of the water associated with these shares must be recharged in pits on the quarters in order for this plan to operate according to the decree. The court calculated that the water attributable to half of the total shares would be recharged and thence used for irrigation by means of groundwater withdrawals. It also required that none of the shares attributable to the subject plan could be used for flood irrigation purposes.

<https://dnrweblink.state.co.us/dwr/DocView.aspx?id=555628&page=1>

### **Great Sand Dunes National Park Services**

In 2022 the Great Sand Dunes National Park Services contracted with Subdistrict No.1 for wells that lie outside of Subdistrict #1 Response Area, but within the RGDSS Model Domain. On January 15, 2021 the division engineer accepted the NPS sustainability metric. The approved metric can be found in Appendix J.



## **11.0 HYDRAULIC DIVIDE**

The hydraulic divide (divide) is a shallow groundwater divide, that when present, separates the closed basin in the San Luis Valley from the remainder of the Rio Grande Basin. The divide has been historically mapped generally paralleling and lying northerly of the Rio Grande  $\pm\frac{1}{2}$  to  $\pm 2$  miles through the reach from near Del Norte to Alamosa. The divide extends northwest of Del Norte to the Continental Divide and from Alamosa northeast to the basin divide along the Sangre de Cristo Mountains. Recent water level measurements in wells along the north side of the Rio Grande indicate that the divide has retreated south to the Rio Grande or very near the river. A goal of the Plan of Water Management is to recover and re-establish the divide northerly of the river which is likely to reduce depletions to the Rio Grande from well pumping within Subdistrict #1.

Appendix C contains maps showing the results of groundwater measurements collected during spring 2022. These maps include interpreted groundwater elevation contours and vectors showing direction of groundwater flow. If a well-defined divide lying northerly of the Rio Grande exists, groundwater flow vectors would indicate a groundwater flow from the divide along the southerly side toward the river and on the northerly side toward the Closed Basin. The groundwater flow vectors do not provide evidence of a well-defined divide with the possible exception of an area between Monte Vista and Alamosa where there is some evidence for a few miles. The interpreted location of the divide is shown on the maps prepared from the 2022 groundwater measurements. The approximate divide location in the area between Del Norte and the 7-Mile Plaza is uncertain due to the perched river condition, so it is shown as a dotted line on the maps included in Appendix C.

## **12.0 GROUNDWATER LEVELS IN THE UNCONFINED AQUIFER AND UNCONFINED AQUIFER STORAGE LEVELS**

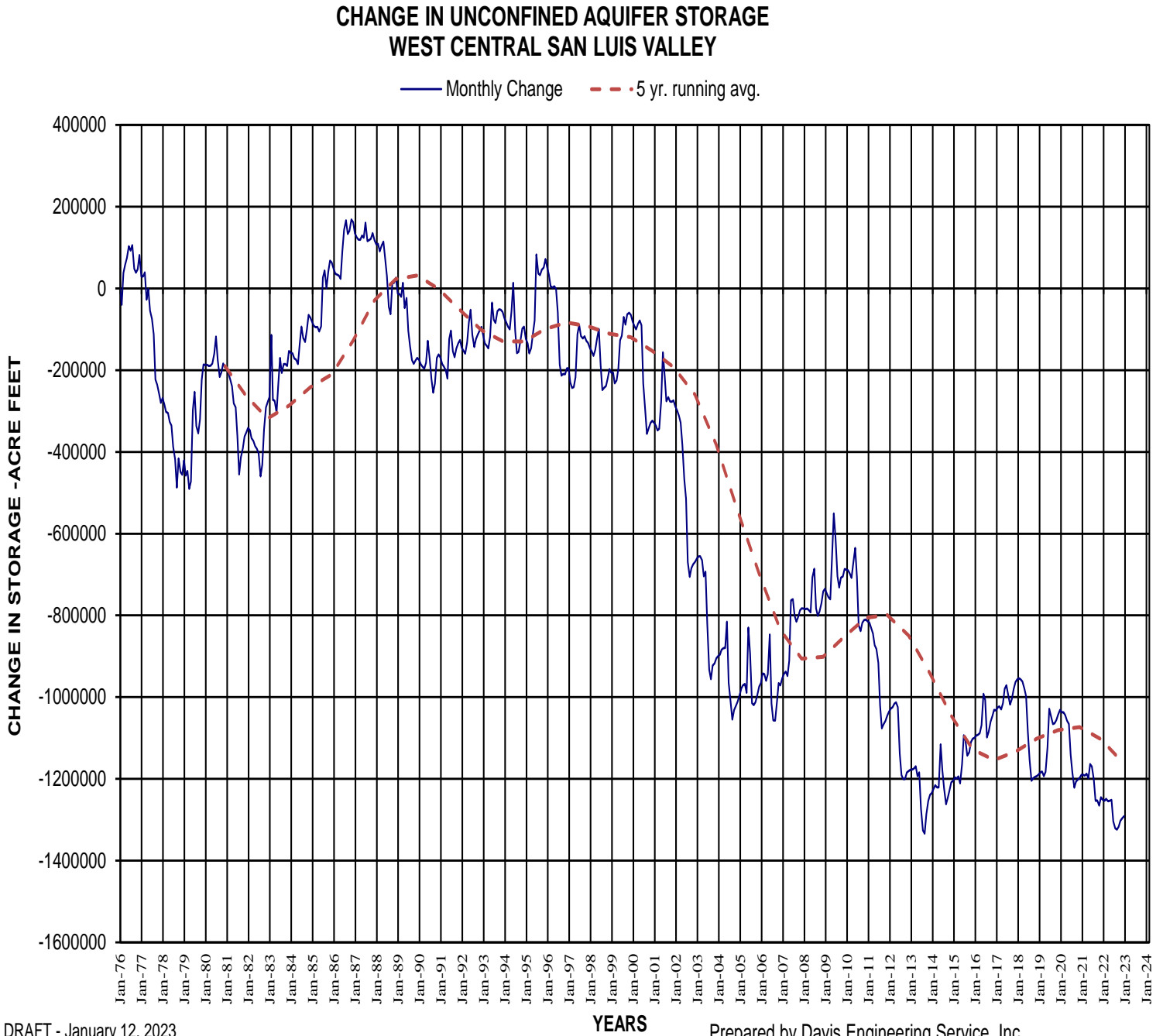
### **12.1 Groundwater Levels in the Unconfined and Confined Aquifer**

A tabulation of groundwater levels measured in unconfined and confined wells both within the boundaries of Subdistrict #1 and the study area for the Change in Unconfined Aquifer Storage – West Central San Luis Valley are provided in Appendix D. This tabulation includes measured values for each of the wells obtained during the previous 12-months. A map showing the location of each well is also included in Appendix D.

### **12.2 Unconfined Aquifer Change in Storage Volumes**

A map showing the study area for the Change in Unconfined Aquifer Storage – West Central San Luis Valley and a tabulation of the data is included in Appendix E. The calculated monthly change in unconfined aquifer storage volumes have been accumulated and plotted on a chart and included as Figure 12.1. The monthly change in storage volumes are plotted on the chart and connected by a line on the chart with the horizontal axis divided into years and the vertical axis divided into change in storage in acre-feet. An additional line is plotted on the chart representing the 5-year running average of the annual average of the monthly change in unconfined storage volume.

**Figure 12.1**  
**Chart Showing Change in Unconfined Aquifer Storage**



DRAFT - January 12, 2023  
Data through January 12, 2023

Prepared by Davis Engineering Service, Inc,  
For Rio Grande Water Conservation Dist.

The change in unconfined aquifer storage based on measurements through January 12, 2023, and calculated on January 12, 2023, was -1,291,680 acre-feet on an accumulated monthly basis. The accumulated 5-year running average of the annual average of the monthly change through December 1, 2022, was -1,158,539 acre-feet. As previously noted, the goal in the Plan is to achieve recovery and maintain storage at a level between -200,000 and -400,000 acre-feet. The December 1, 2022, storage value is 758,539 acre-feet below the lowest goal level.

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**APPENDIX A - DAILY ACCOUNTING**

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. January 2022 Depletion Obligation Total: 83.39 ac-ft. 2022 Replacement Operation Total: 83.39 ac-ft (all units are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Required 2022 ARP</b>	<b>Forbear SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 &amp; SR3 Ac-ft.</b>	<b>Accretion Exchange from SRMC SR1 to SR 2 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 3 Ac-ft.</b>	<b>Total</b>
1	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
2	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
3	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
4	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
5	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
6	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
7	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
8	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
9	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
10	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
11	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
12	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
13	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
14	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
15	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
16	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
17	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
18	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
19	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
20	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
21	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
22	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
23	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
24	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
25	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
26	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
27	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
28	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
29	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
30	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
31	-0.7703	3.623	-0.154	2.69	0	0	0	0	0	0	2.69	0	0	2.69
<b>Totals</b>	<b>-23.88</b>	<b>112.33</b>	<b>-4.789</b>	<b>83.39</b>							<b>83.39</b>			<b>83.39</b>

**Table 2:** District 20 Rio Grande River Call for January 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – <sup>32</sup>Division

3, District 20.

**Table 2**

<b>January</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1		Rio Grande Compact	0
2		Rio Grande Compact	0
3		Rio Grande Compact	0
4		Rio Grande Compact	0
5		Rio Grande Compact	0
6		Rio Grande Compact	0
7		Rio Grande Compact	0
8		Rio Grande Compact	0
9		Rio Grande Compact	0
10		Rio Grande Compact	0
11		Rio Grande Compact	0
12		Rio Grande Compact	0
13		Rio Grande Compact	0
14		Rio Grande Compact	0
15		Rio Grande Compact	0
16		Rio Grande Compact	0
17		Rio Grande Compact	0
18		Rio Grande Compact	0
19		Rio Grande Compact	0
20		Rio Grande Compact	0
21		Rio Grande Compact	0
22		Rio Grande Compact	0
23		Rio Grande Compact	0
24		Rio Grande Compact	0
25		Rio Grande Compact	0
26		Rio Grande Compact	0
27		Rio Grande Compact	0
28		Rio Grande Compact	0
29		Rio Grande Compact	0
30		Rio Grande Compact	0
31		Rio Grande Compact	0

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez Office Phone: 719-589-6301  
 Program Assistant, RGWCD

**Table 1:** Subdistrict No. 1 depletions per Table 2.6 in the accepted 2021 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Stream Replacement Obligation for 2021 ARP Year submitted to the Colorado State Engineer’s Office on April 15, 2021. February 2022 Depletion Obligation Total: 56 ac-ft. 2021 Replacement Operation Total: 56 ac-ft (all units’ are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>February</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Revised Dec. Calculations for 2021 ARP</b>	<b>Forbear r SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 Ac-ft.</b>	<b>Accretion Exchange from SMRC SR1 &amp; SR3 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 2Ac-ft.</b>	<b>Total</b>
1	-97	3.32	-33		0	0	0	0			2.02			2.02
2	-97	3.32	-33		0	0	0	0			2.02			2.02
3	-97	3.32	-33		0	0	0	0			2.02			2.02
4	-97	3.32	-33		0	0	0	0			2.02			2.02
5	-97	3.32	-33		0	0	0	0			2.02			2.02
6	-97	3.32	-33		0	0	0	0			2.02			2.02
7	-97	3.32	-33		0	0	0	0			2.02			2.02
8	-97	3.32	-33		0	0	0	0			2.02			2.02
9	-97	3.32	-33		0	0	0	0			2.02			2.02
10	-97	3.32	-33		0	0	0	0			2.02			2.02
11	-97	3.32	-33		0	0	0	0			2.02			2.02
12	-97	3.32	-33		0	0	0	0			2.02			2.02
13	-97	3.32	-33		0	0	0	0			2.02			2.02
14	-97	3.32	-33		0	0	0	0			2.02			2.02
15	-97	3.32	-33		0	0	0	0			2.02			2.02
16	-97	3.32	-33		0	0	0	0			2.02			2.02
17	-97	3.32	-33		0	0	0	0			2.02			2.02
18	-97	3.32	-33		0	0	0	0			2.02			2.02
19	-97	3.32	-33		0	0	0	0			2.02			2.02
20	-97	3.32	-33		0	0	0	0			2.02			2.02
21	-97	3.32	-33		0	0	0	0			2.02			2.02
22	-97	3.32	-33		0	0	0	0			2.02			2.02
23	-97	3.32	-33		0	0	0	0			2.02			2.02
24	-97	3.32	-33		0	0	0	0			2.02			2.02
25	-97	3.32	-33		0	0	0	0			2.02			2.02
26	-97	3.32	-33		0	0	0	0			2.02			2.02
27	-97	3.32	-33		0	0	0	0			2.02			2.02
28	-97	3.32	-33		0	0	0	0			2.02			2.02
<b>Totals</b>	<b>-27.07</b>	<b>92.94</b>	<b>-9.91</b>	<b>56</b>							<b>2</b>			<b>56</b>

**Table 2:** District 20 Rio Grande River Call for February 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.

**Table 2**

<b>February</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
<b>1</b>			Closed Basin Project
<b>2</b>			<b>0</b>
<b>3</b>			<b>0</b>
<b>4</b>			<b>0</b>
<b>5</b>			<b>0</b>
<b>6</b>			<b>0</b>
<b>7</b>			<b>0</b>
<b>8</b>			<b>0</b>
<b>9</b>			<b>0</b>
<b>10</b>			<b>0</b>
<b>11</b>			<b>0</b>
<b>12</b>			<b>0</b>
<b>13</b>			<b>0</b>
<b>14</b>			<b>0</b>
<b>15</b>			<b>0</b>
<b>16</b>			<b>0</b>
<b>17</b>			<b>0</b>
<b>18</b>			<b>0</b>
<b>19</b>			<b>0</b>
<b>20</b>			<b>0</b>
<b>21</b>			<b>0</b>
<b>22</b>			<b>0</b>
<b>23</b>			<b>0</b>
<b>24</b>			<b>0</b>
<b>25</b>			<b>0</b>
<b>26</b>			<b>0</b>
<b>27</b>			<b>0</b>
<b>28</b>			<b>0</b>

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Marisa Fricke  
 Program Manager, RGWCD  
 Office Phone: 719-589-6301

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. March 2022 Depletion Obligation Total: 75.21 ac-ft. 2022 Replacement Operation Total: 75.21 ac-ft (all units are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>March</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Required 2022 ARP</b>	<b>Forbear SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 &amp; SR3 Ac-ft.</b>	<b>Accretion Exchange from SRMC SR1 to SR 2 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 3 Ac-ft.</b>	<b>Total</b>
1	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
2	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
3	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
4	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
5	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
6	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
7	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
8	-1.017	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
9	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
10	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
11	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
12	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
13	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
14	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
15	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
16	-1.018	3.915	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
17	-1.018	3.916	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
18	-1.018	3.916	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
19	-1.018	3.916	-0.472	2.426	0	0	0	0	0	0	2.426	0	0	2.426
20	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
21	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
22	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
23	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
24	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
25	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
26	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
27	-1.018	3.916	-0.471	2.426	0	0	0	0	0	0	2.426	0	0	2.426
28	-1.018	3.916	-0.471	2.427	0	0	0	0	0	0	2.427	0	0	2.427
29	-1.018	3.916	-0.471	2.427	0	0	0	0	0	0	2.427	0	0	2.427
30	-1.018	3.916	-0.471	2.427	0	0	0	0	0	0	2.427	0	0	2.427
31	-1.018	3.916	-0.471	2.427	0	0	0	0	0	0	2.427	0	0	2.427
<b>Totals</b>	<b>-31.55</b>	<b>121.38</b>	<b>-14.62</b>	<b>75.21</b>							<b>75.21</b>			<b>75.21</b>

**Table 2:** District 20 Rio Grande River Call for March 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division



3, District 20.

**Table 2**

<b>March</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1		Rio Grande Compact	0
2		Rio Grande Compact	0
3		Rio Grande Compact	0
4		Rio Grande Compact	0
5		Rio Grande Compact	0
6		Rio Grande Compact	0
7		Rio Grande Compact	0
8		Rio Grande Compact	0
9		Rio Grande Compact	0
10		Rio Grande Compact	0
11		Rio Grande Compact	0
12		Rio Grande Compact	0
13		Rio Grande Compact	0
14		Rio Grande Compact	0
15		Rio Grande Compact	0
16		Rio Grande Compact	0
17		Rio Grande Compact	0
18		Rio Grande Compact	0
19		Rio Grande Compact	0
20		Rio Grande Compact	0
21		Rio Grande Compact	0
22		Rio Grande Compact	0
23		Rio Grande Compact	0
24		Rio Grande Compact	0
25		Rio Grande Compact	0
26		Rio Grande Compact	0
27		Rio Grande Compact	0
28		Rio Grande Compact	0
29		Rio Grande Compact	0
30		Rio Grande Compact	0
31		Rio Grande Compact	0

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez Office Phone: 719-589-6301  
 Program Assistant, RGWCD

**Table 1:** Subdistrict No. 1 depletions per Table 2.6 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Stream Replacement Obligation for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. April 2022 Depletion Obligation Total: 50.1 ac-ft. 2022 Replacement Operation Total: 50.1 ac-ft (all units’ are in acre feet).

**Table 1**

Date	Depletion Obligation				SD #1 Replacement Water Sources									
	April	SR-1 Ac-ft.	SR-2 Ac-ft.	SR-3 Ac-ft.	Total Revised Calculations for 2022 ARP	Forbear SLVID SR 1&2 Ac-ft.	Forbear SLVC SR 1&2 Ac-ft.	Forbear MVC SR 1&2 Ac-ft.	SLVID Tabor D 2 TM SR 1&2 Ac-ft.	Exchange from SR 3 to SR 2	Santa Maria depletion Pool SR1 & SR 2 Ac-ft	CBP Allocation SR 2 Ac-ft.	Accretion Exchange from SMRC SR1 & SR3 Ac-Ft.	Accretion Exchange From SMRC SR 2Ac-ft.
1	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
2	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
3	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
4	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
5	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
6	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
7	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
8	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
9	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
10	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
11	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
12	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
13	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
14	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
15	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
16	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
17	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
18	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
19	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
20	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
21	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
22	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
23	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
24	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
25	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
26	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
27	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
28	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
29	-0.95	3.36	-0.74	1.67	0	0	0	0		1.67				1.67
30	-0.96	3.37	-0.75	1.67	0	0	0	0		1.67				1.67
<b>Totals</b>	<b>-28.51</b>	<b>100.81</b>	<b>-22.21</b>	<b>50.1</b>								<b>50.1</b>		<b>50.1</b>

**Table 2:** District 20 Rio Grande River Call for April 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3,

District 20.

**Table 2**

<b>April</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
<b>1</b>	198	ENTERPRISE D (RIO GRANDE)	<b>No Forbearance in April</b>
<b>2</b>	198	ENTERPRISE D (RIO GRANDE)	
<b>3</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>4</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>5</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>6</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>7</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>8</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>9</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>10</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>11</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>12</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>13</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>14</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>15</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>16</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>17</b>	216-A	RIO GRANDE CANAL (RIO GRANDE)	
<b>18</b>	224	MONTE VISTA CNL (RIO GRANDE)	
<b>19</b>	236-A	EMPIRE CNL (RIO GRANDE)	
<b>20</b>	297	PRAIRIE D (RIO GRANDE)	
<b>21</b>	314	FARMERS UNION CNL (RIO GRANDE)	
<b>22</b>	361-A	EMPIRE CANAL (RIO GRANDE)	
<b>23</b>	344	RIO GRANDE CNL (RIO GRANDE)	
<b>24</b>	293	COSTILLA D (RIO GRANDE)	
<b>25</b>	236-A	EMPIRE CNL (RIO GRANDE)	
<b>26</b>	236-A	EMPIRE CNL (RIO GRANDE)	
<b>27</b>	270	SAN LUIS VALLEY CNL (RIO GRANDE)	
<b>28</b>	293	COSTILLA D (RIO GRANDE)	
<b>29</b>	358	MONTE VISTA CNL (RIO GRANDE)	
<b>30</b>	361-A	EMPIRE CNL (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez Office Phone: 719-589-6301  
 Program Assistant, RGWCD

**Table 1:** Subdistrict No. 1 depletions per Table 2.6 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Stream Replacement Obligation for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. may 2022 Depletion Obligation Total: 54 ac-ft. 2022 Replacement Operation Total: 54 ac-ft (all units’ are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>May</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Revised Calculations for 2022 ARP</b>	<b>Forbear r SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 Ac-ft.</b>	<b>Accretion Exchange from SMRC SR1 &amp; SR3 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 2Ac-ft.</b>	<b>Total</b>
1	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
2	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
3	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
4	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
5	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
6	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
7	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
8	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
9	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
10	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
11	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
12	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
13	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
14	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
15	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
16	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
17	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
18	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
19	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
20	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
21	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
22	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
23	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
24	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
25	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
26	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
27	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
28	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
29	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
30	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
31	-1.171	2.929	-0.019		0	0	0	0				1.739		1.739
<b>Totals</b>	<b>-36.3</b>	<b>90.8</b>	<b>-0.6</b>	<b>54</b>										<b>54</b>

**Table 2:** District 20 Rio Grande River Call for May 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.

**Table 2**

<b>May</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1	365	RIO GRANDE CNL (RIO GRANDE)	
2	365	RIO GRANDE CNL (RIO GRANDE)	
3	365	RIO GRANDE CNL (RIO GRANDE)	
4	365	RIO GRANDE CNL (RIO GRANDE)	
5	358	MONTE VISTA CNL (RIO GRANDE)	
6	358	MONTE VISTA CNL (RIO GRANDE)	
7	365	RIO GRANDE CNL (RIO GRANDE)	
8	1903-24F	FARMERS UNION CNL (RIO GRANDE)	
9	1903-24F	FARMERS UNION CNL (RIO GRANDE)	
10	1903-22C	FARMERS UNION CNL (RIO GRANDE)	
11	1903-22B	SAN LUIS VALLEY CNL (RIO GRANDE)	
12	365	RIO GRANDE CNL (RIO GRANDE)	
13	358	MONTE VISTA CNL (RIO GRANDE)	
14	358	MONTE VISTA CNL (RIO GRANDE)	
15	358	MONTE VISTA CNL (RIO GRANDE)	
16	361-B	EMPIRE CNL (RIO GRANDE)	
17	361-A	EMPIRE CNL (RIO GRANDE)	
18	358	MONTE VISTA CNL (RIO GRANDE)	
19	314	FARMERS UNION CNL (RIO GRANDE)	
20	314	FARMERS UNION CNL (RIO GRANDE)	
21	297	PRARIRIE D (RIO GRANDE)	
22	276-A	RIO GRANDE CNL (RIO GRANDE)	
23	262	EXCELSIOR D (RIO GRANDE)	
24	241	RIO GRANDE PIEDRA VLY D (RIO GRANDE)	
25	236-A	EMPIRE CNL (RIO GRANDE)	
26	236-A	EMPIRE CNL (RIO GRANDE)	
27	236-A	EMPIRE CNL (RIO GRANDE)	
28	262	EXCELSIOR D (RIO GRANDE)	
29	270	SAN LUIS VALLEY CNL (RIO GRANDE)	
30	241	RIO GRANDE PIEDRA VLY D (RIO GRANDE)	
31	236-A	EMPIRE CNL (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Marisa Fricke  
 Program Manager, RGWCD  
 Office Phone: 719-589-6301

**Table 1:** Subdistrict No. 1 depletions per Table 2.6 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Stream Replacement Obligation for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. June 2022 Depletion Obligation Total: 24 ac-ft. 2022 Replacement Operation Total: 24 ac-ft (all units’ are in acre feet).

**Table 1**

Date	Depletion Obligation				SD #1 Replacement Water Sources									
	June	SR-1 Ac-ft.	SR-2 Ac-ft.	SR-3 Ac-ft.	Total Revised Calculations for 2022 ARP	Forbear SLVID SR 1&2 Ac-ft.	Forbear SLVC SR 1&2 Ac-ft.	Forbear MVC SR 1&2 Ac-ft.	SLVID Tabor D 2 TM SR 1&2 Ac-ft.	Exchange from SR 3 to SR 2	Santa Maria depletion Pool SR 2 Ac-ft	CBP Allocation SR 2 Ac-ft.	Accretion Exchange from SMRC SR1 & SR3 Ac-Ft.	Accretion Exchange From SMRC SR 2Ac-ft.
1	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
2	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
3	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
4	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
5	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
6	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
7	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
8	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
9	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
10	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
11	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
12	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
13	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
14	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
15	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
16	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
17	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
18	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
19	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
20	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
21	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
22	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
23	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
24	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
25	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
26	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
27	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
28	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
29	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
30	-1.05	2.36	-0.51		0	0	0	0				0.8		0.8
<b>Totals</b>	<b>-31.5</b>	<b>70.8</b>	<b>-15.2</b>		<b>24</b>									<b>24</b>

**Table 2:** District 20 Rio Grande River Call for June 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.

**Table 2**

<b>June</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1	224	MONTE VISTA CNL (RIO GRANDE)	<b>No Forbearance in June</b>
2	224	MONTE VISTA CNL (RIO GRANDE)	
3	224	MONTE VISTA CNL (RIO GRANDE)	
4	224	MONTE VISTA CNL (RIO GRANDE)	
5	224	MONTE VISTA CNL (RIO GRANDE)	
6	224	MONTE VISTA CNL (RIO GRANDE)	
7	224	MONTE VISTA CNL (RIO GRANDE)	
8	216-A	RIO GRANDE CNL (RIO GRANDE)	
9	216-A	RIO GRANDE CNL (RIO GRANDE)	
10	216-A	RIO GRANDE CNL (RIO GRANDE)	
11	216-A	RIO GRANDE CNL (RIO GRANDE)	
12	216-A	RIO GRANDE CNL (RIO GRANDE)	
13	216-A	RIO GRANDE CNL (RIO GRANDE)	
14	216-A	RIO GRANDE CNL (RIO GRANDE)	
15	216-A	RIO GRANDE CNL (RIO GRANDE)	
16	204	RIO GRANDE SAN LUIS D (RIO GRANDE)	
17	198	ENTERPRISE D (RIO GRANDE)	
18	198	ENTERPRISE D (RIO GRANDE)	
19	198	ENTERPRISE D (RIO GRANDE)	
20	216-A	RIO GRANDE CNL (RIO GRANDE)	
21	224	MONTE VISTA CNL (RIO GRANDE)	
22	216-A	RIO GRANDE CNL (RIO GRANDE)	
23	216-A	RIO GRANDE CNL (RIO GRANDE)	
24	216-A	RIO GRANDE CNL (RIO GRANDE)	
25	216-A	RIO GRANDE CNL (RIO GRANDE)	
26	216-A	RIO GRANDE CNL (RIO GRANDE)	
27	217	RIO GRANDE LARIAT D (RIO GRANDE)	
28	236-A	EMPIRE CNL (RIO GRANDE)	
29	236-A	EMPIRE CNL (RIO GRANDE)	
30	224	MONTE VISTA CNL (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Marisa Fricke  
 Program Manager, RGWCD  
 Office Phone: 719-589-6301

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. July 2022 Depletion Obligation Total: 18.9 ac-ft. 2022 Replacement Operation Total: 18.9 ac-ft (all units’ are in acre feet).

**Table 1**

Date	Depletion Obligation				SD #1 Replacement Water Sources									
	SR-1 Ac-ft.	SR-2 Ac-ft.	SR-3 Ac-ft.	Total Revised Calculations for 2022 ARP	Forbear SLVID SR 1&2 Ac-ft.	Forbear SLVC SR 1&2 Ac-ft.	Forbear MVC SR 1&2 Ac-ft.	SLVID Tabor D 2 TM SR 1&2 Ac-ft.	Exchange from SR 3 to SR 2	Santa Maria depletion Pool SR 2 Ac-ft	CBP Allocation SR 2 Ac-ft.	Accretion Exchange from SMRC SR1 & SR3 Ac-Ft.	Accretion Exchange From SMRC SR 2Ac-ft.	Total
1	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
2	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
3	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
4	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
5	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
6	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
7	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
8	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
9	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
10	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
11	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
12	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
13	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
14	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
15	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
16	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
17	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
18	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
19	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
20	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
21	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
22	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
23	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
24	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
25	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
26	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
27	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
28	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
29	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
30	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
31	-0.587	1.81	-0.613		0	0	0	0				0.61		0.61
<b>Totals</b>	<b>-18.2</b>	<b>56.1</b>	<b>-19.0</b>	<b>18.9</b>										<b>18.9</b>

**Table 2:** District 20 Rio Grande River Call for July 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3,



**Table 2**

<b>July</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1	216-A	RIO GRANDE CNL (RIO GRANDE)	<b>No Forbearance in July</b>
2	216-A	RIO GRANDE CNL (RIO GRANDE)	
3	216-A	RIO GRANDE CNL (RIO GRANDE)	
4	217	RIO GRANDE LARIAT D (RIO GRANDE)	
5	216-A	RIO GRANDE CNL (RIO GRANDE)	
6	217	RIO GRANDE LARIAT D (RIO GRANDE)	
7	217	RIO GRANDE LARIAT D (RIO GRANDE)	
8	217	RIO GRANDE LARIAT D (RIO GRANDE)	
9	216-A	RIO GRANDE CNL (RIO GRANDE)	
10	216-A	RIO GRANDE CNL (RIO GRANDE)	
11	216-A	RIO GRANDE CNL (RIO GRANDE)	
12	216-A	RIO GRANDE CNL (RIO GRANDE)	
13	216-A	RIO GRANDE CNL (RIO GRANDE)	
14	216-A	RIO GRANDE CNL (RIO GRANDE)	
15	216-A	RIO GRANDE CNL (RIO GRANDE)	
16	216-A	RIO GRANDE CNL (RIO GRANDE)	
17	216-A	RIO GRANDE CNL (RIO GRANDE)	
18	216-A	RIO GRANDE CNL (RIO GRANDE)	
19	216-A	RIO GRANDE CNL (RIO GRANDE)	
20	216-A	RIO GRANDE CNL (RIO GRANDE)	
21	216-A	RIO GRANDE CNL (RIO GRANDE)	
22	216-A	RIO GRANDE CNL (RIO GRANDE)	
23	216-A	RIO GRANDE CNL (RIO GRANDE)	
24	216-A	RIO GRANDE CNL (RIO GRANDE)	
25	216-A	RIO GRANDE CNL (RIO GRANDE)	
26	216-A	RIO GRANDE CNL (RIO GRANDE)	
27	216-A	RIO GRANDE CNL (RIO GRANDE)	
28	216-A	RIO GRANDE CNL (RIO GRANDE)	
29	224	MONTE VISTA CNL (RIO GRANDE)	
30	276-A	RIO GRANDE CNL (RIO GRANDE)	
31	288-A	RIO GRANDE CNL (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez  
 Program Assistant, RGWCD  
 Office Phone: 719-589-6301

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. August 2022 Depletion Obligation Total: 37 ac-ft. 2022 Replacement Operation Total: 37 ac-ft (all units’ are in acre feet).

**Table 1**

Date	Depletion Obligation				SD #1 Replacement Water Sources										
	August	SR-1 Ac-ft.	SR-2 Ac-ft.	SR-3 Ac-ft.	Total Revised Calculations for 2022 ARP	Forbear SLVID SR 1&2 Ac-ft.	Forbear SLVC SR 1&2 Ac-ft.	Forbear MVC SR 1&2 Ac-ft.	SLVID Tabor D 2 TM SR 1&2 Ac-ft.	Exchange from SR 3 to SR 2	Santa Maria depletion Pool SR 2 Ac-ft	CBP Allocation SR 2 Ac-ft.	Accretion Exchange from SMRC SR1 & SR3 Ac-Ft.	Accretion Exchange From SMRC SR 2Ac-ft.	Total
1	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
2	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
3	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
4	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
5	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
6	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
7	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
8	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
9	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
10	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
11	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
12	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
13	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
14	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
15	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
16	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
17	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
18	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
19	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
20	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
21	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
22	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
23	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
24	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
25	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
26	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
27	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
28	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
29	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
30	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
31	-0.268	1.752	-0.294		0	0	0	0	0				1.190		1.190
<b>Totals</b>	<b>-8.3</b>	<b>54.3</b>	<b>-9.1</b>		<b>36.9</b>										<b>36.9</b>

**Table 2:** District 20 Rio Grande River Call for August 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division

3, District 20.

**Table 2**

<b>August</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
<b>1</b>	276-A	RIO GRANDE CNL (RIO GRANDE)	<b>No Forbearance in August</b>
<b>2</b>	270-A	SAN LUIS VALLEY CNL (RIO GRANDE)	
<b>3</b>	236-A	EMPIRE CANAL (RIO GRANDE)	
<b>4</b>	236-A	EMPIRE CANAL (RIO GRANDE)	
<b>5</b>	236-A	EMPIRE CANAL (RIO GRANDE)	
<b>6</b>	236-A	EMPIRE CANAL (RIO GRANDE)	
<b>7</b>	224	MONTE VISTA CANAL (RIO GRANDE)	
<b>8</b>	224	MONTE VISTA CANAL (RIO GRANDE)	
<b>9</b>	224	MONTE VISTA CANAL (RIO GRANDE)	
<b>10</b>	217	RIO GRANDE LARIAT D (RIO GRANDE)	
<b>11</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>12</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>13</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>14</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>15</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>16</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>17</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>18</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>19</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>20</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>21</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>22</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>23</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>24</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>25</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>26</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>27</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>28</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>29</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>30</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	
<b>31</b>	216-A	RIO GRANDE CNL (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez  
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**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. September 2022 Depletion Obligation Total: 42.99 ac-ft. 2022 Replacement Operation Total: 42.99 ac-ft (all units’ are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>September</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Revised Calculations for 2022 ARP</b>	<b>Forbear SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 Ac-ft.</b>	<b>Accretion Exchange from SMRC SR1 &amp; SR3 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 2Ac-ft.</b>	<b>Total</b>
1	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
2	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
3	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
4	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
5	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
6	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
7	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
8	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
9	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
10	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
11	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
12	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
13	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
14	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
15	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
16	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
17	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
18	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
19	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
20	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
21	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
22	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
23	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
24	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
25	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
26	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
27	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
28	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
29	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
30	-0.243	1.783	-0.086		0	0	0	0				1.433		1.433
<b>Totals</b>	<b>-7.3</b>	<b>53.5</b>	<b>-2.6</b>	<b>42.99</b>										<b>42.99</b>

**Table 2:** District 20 Rio Grande River Call for September 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.

**Table 2**

September	Last Priority Served From Direct Flow	District 20 Ditch / Reservoir Being Served	Max CFS in Priority During Forbearance
1	216-A	RIO GRANDE CNL (RIO GRANDE)	<b>No Forbearance in September</b>
2	204	RIO GRANDE SAN LUIS D (RIO GRANDE)	
3	204	RIO GRANDE SAN LUIS D (RIO GRANDE)	
4	198	ENTERPRISE D (RIO GRANDE)	
5	198	ENTERPRISE D (RIO GRANDE)	
6	196	CHICAGO D (RIO GRANDE)	
7	192	NICHOL D (RIO GRANDE)	
8	192	NICHOL D (RIO GRANDE)	
9	192	NICHOL D (RIO GRANDE)	
10	195	KANE CALLAN D (RIO GRANDE)	
11	196	CHICAGO D (RIO GRANDE)	
12	197	BIEDEL D (RIO GRANDE)	
13	197	BIEDEL D (RIO GRANDE)	
14	197	BIEDEL D (RIO GRANDE)	
15	197	BIEDEL D (RIO GRANDE)	
16	197	BIEDEL D (RIO GRANDE)	
17	197	BIEDEL D (RIO GRANDE)	
18	192	NICHOL D (RIO GRANDE)	
19	190	MINOR D (RIO GRANDE)	
20	176	HERMANTHAL D (RIO GRANDE)	
21	178	RIO GRANDE CNL (RIO GRANDE)	
22	197	BIEDEL D (RIO GRANDE)	
23	216-A	RIO GRANDE CNL (RIO GRANDE)	
24	216-A	RIO GRANDE CNL (RIO GRANDE)	
25	216-A	RIO GRANDE CNL (RIO GRANDE)	
26	216-A	RIO GRANDE CNL (RIO GRANDE)	
27	216-A	RIO GRANDE CNL (RIO GRANDE)	
28	198	ENTERPRISE D (RIO GRANDE)	
29	198	ENTERPRISE D (RIO GRANDE)	
30	198	ENTERPRISE D (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
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**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. October 2022 Depletion Obligation Total: 40.99 ac-ft. 2022 Replacement Operation Total: 40.99 ac-ft (all units are in acre feet).

**Table 1**

Date	Depletion Obligation				SD #1 Replacement Water Sources									
	SR-1 Ac-ft.	SR-2 Ac-ft.	SR-3 Ac-ft.	Total Revised Calculations for 2022 ARP	Forbear SLVID SR 1&2 Ac-ft.	Forbear SLVC SR 1&2 Ac-ft.	Forbear MVC SR 1&2 Ac-ft.	SLVID Tabor D 2 TM SR 1&2 Ac-ft.	Exchange from SR 3 to SR 2	Santa Maria depletion Pool SR 2 Ac-ft	CBP Allocation SR 2 Ac-ft.	Accretion Exchange from SMRC SR1 & SR3 Ac-Ft.	Accretion Exchange From SMRC SR 2Ac-ft.	Total
1	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
2	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
3	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
4	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
5	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
6	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
7	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
8	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
9	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
10	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
11	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
12	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
13	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
14	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
15	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
16	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
17	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
18	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
19	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
20	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
21	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
22	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
23	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
24	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
25	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
26	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
27	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
28	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
29	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
30	-0.329	2.058	-0.406		0	0	0	0				1.322		1.322
31	-0.329	2.058	-0.406									1.322		1.322
<b>Totals</b>	<b>-10.19</b>	<b>63.79</b>	<b>-12.58</b>	<b>40.99</b>										<b>40.99</b>

**Table 2:** District 20 Rio Grande River Call for October 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – 50 Division

3, District 20.

**Table 2**

<b>October</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1	198	ENTERPRISE D (RIO GRANDE)	<b>No Forbearance in October</b>
2	198	ENTERPRISE D (RIO GRANDE)	
3	216-A	RIO GRANDE CNL (RIO GRANDE)	
4	217	RIO GRANDE LARIAT D (RIO GRANDE)	
5	216-A	RIO GRANDE CNL (RIO GRANDE)	
6	216-A	RIO GRANDE CNL (RIO GRANDE)	
7	216-A	RIO GRANDE CNL (RIO GRANDE)	
8	216-A	RIO GRANDE CNL (RIO GRANDE)	
9	216-A	RIO GRANDE CNL (RIO GRANDE)	
10	216-A	RIO GRANDE CNL (RIO GRANDE)	
11	216-A	RIO GRANDE CNL (RIO GRANDE)	
12	216-A	RIO GRANDE CNL (RIO GRANDE)	
13	216-A	RIO GRANDE CNL (RIO GRANDE)	
14	216-A	RIO GRANDE CNL (RIO GRANDE)	
15	216-A	RIO GRANDE CNL (RIO GRANDE)	
16	216-A	RIO GRANDE CNL (RIO GRANDE)	
17	216-A	RIO GRANDE CNL (RIO GRANDE)	
18	216-A	RIO GRANDE CNL (RIO GRANDE)	
19	209	FISH D (RIO GRANDE)	
20	211	DAVIS AND BINGLE D (RIO GRANDE)	
21	211	DAVIS AND BINGLE D (RIO GRANDE)	
22	209	FISH D (RIO GRANDE)	
23	216-A	RIO GRANDE CNL (RIO GRANDE)	
24	216-A	RIO GRANDE CNL (RIO GRANDE)	
25	216-A	RIO GRANDE CNL (RIO GRANDE)	
26	216-A	RIO GRANDE CNL (RIO GRANDE)	
27	216-A	RIO GRANDE CNL (RIO GRANDE)	
28	216-A	RIO GRANDE CNL (RIO GRANDE)	
29	216-A	RIO GRANDE CNL (RIO GRANDE)	
30	216-A	RIO GRANDE CNL (RIO GRANDE)	
31	216-A	RIO GRANDE CNL (RIO GRANDE)	

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez  
 Program Assistant, RGWCD  
 Office Phone: 719-589-6301

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. November 2022 Depletion Obligation Total: 73.92 ac-ft. 2022 Replacement Operation Total: 73.92 ac-ft (all units’ are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>November</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Revised Calculations for 2022 ARP</b>	<b>Forbear SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 Ac-ft.</b>	<b>Accretion Exchange from SMRC SR1 &amp; SR3 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 2Ac-ft.</b>	<b>Total</b>
1	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
2	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
3	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
4	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
5	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
6	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
7	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
8	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
9	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
10	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
11	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
12	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
13	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
14	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
15	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
16	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
17	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
18	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
19	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
20	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
21	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
22	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
23	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
24	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
25	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
26	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
27	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
28	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
29	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
30	-0.406	2.92	-0.05		0	0	0	0			2.92	-456		2.464
<b>Totals</b>	<b>-12.2</b>	<b>87.6</b>	<b>-1.5</b>	<b>73.92</b>										<b>73.92</b>

**Table 2:** District 20 Rio Grande River Call for November 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.



**Table 2**

<b>November</b>	<b>Last Priority Served From Direct Flow</b>	<b>District 20 Ditch / Reservoir Being Served</b>	<b>Max CFS in Priority During Forbearance</b>
1		Rio Grande Compact	0
2		Rio Grande Compact	0
3		Rio Grande Compact	0
4		Rio Grande Compact	0
5		Rio Grande Compact	0
6		Rio Grande Compact	0
7		Rio Grande Compact	0
8		Rio Grande Compact	0
9		Rio Grande Compact	0
10		Rio Grande Compact	0
11		Rio Grande Compact	0
12		Rio Grande Compact	0
13		Rio Grande Compact	0
14		Rio Grande Compact	0
15		Rio Grande Compact	0
16		Rio Grande Compact	0
17		Rio Grande Compact	0
18		Rio Grande Compact	0
19		Rio Grande Compact	0
20		Rio Grande Compact	0
21		Rio Grande Compact	0
22		Rio Grande Compact	0
23		Rio Grande Compact	0
24		Rio Grande Compact	0
25		Rio Grande Compact	0
26		Rio Grande Compact	0
27		Rio Grande Compact	0
28		Rio Grande Compact	0
29		Rio Grande Compact	0
30		Rio Grande Compact	0

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
Linda Ramirez  
Program Assistant, RGWCD  
Office Phone: 719-589-6301

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. December 2022 Depletion Obligation Total: 87.9 ac-ft. 2022 Replacement Operation Total: 87.9 ac-ft (all units are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>December</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Required 2022 ARP</b>	<b>Forbear SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 &amp; SR3 Ac-ft.</b>	<b>Accretion Exchange from SRMC SR1 to SR 2 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 3 Ac-ft.</b>	<b>Total</b>
1	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
2	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
3	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
4	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
5	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
6	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
7	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
8	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
9	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
10	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
11	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
12	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
13	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
14	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
15	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
16	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
17	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
18	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
19	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
20	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
21	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
22	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
23	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
24	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
25	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
26	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
27	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
28	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
29	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
30	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
31	-0.3548	3.097	0.0935	2.836	0	0	0	0	0	0	2.836	0	0	2.836
<b>Totals</b>	<b>-11</b>	<b>96</b>	<b>2.9</b>	<b>87.9</b>										<b>87.9</b>

**Table 2:** District 20 Rio Grande River Call for December 2022 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.

**Table 2**

December	Last Priority Served From Direct Flow	District 20 Ditch / Reservoir Being Served	Max CFS in Priority During Forbearance
1		Rio Grande Compact	0
2		Rio Grande Compact	0
3		Rio Grande Compact	0
4		Rio Grande Compact	0
5		Rio Grande Compact	0
6		Rio Grande Compact	0
7		Rio Grande Compact	0
8		Rio Grande Compact	0
9		Rio Grande Compact	0
10		Rio Grande Compact	0
11		Rio Grande Compact	0
12		Rio Grande Compact	0
13		Rio Grande Compact	0
14		Rio Grande Compact	0
15		Rio Grande Compact	0
16		Rio Grande Compact	0
17		Rio Grande Compact	0
18		Rio Grande Compact	0
19		Rio Grande Compact	0
20		Rio Grande Compact	0
21		Rio Grande Compact	0
22		Rio Grande Compact	0
23		Rio Grande Compact	0
24		Rio Grande Compact	0
25		Rio Grande Compact	0
26		Rio Grande Compact	0
27		Rio Grande Compact	0
28		Rio Grande Compact	0
29		Rio Grande Compact	0
30		Rio Grande Compact	0
31		Rio Grande Compact	0

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez Office Phone: 719-589-6301  
 Program Assistant, RGWCD

**Table 1:** Subdistrict No. 1 depletions per Table 2.5 in the accepted 2022 Annual Replacement Plan (ARP): Subdistrict No. 1 Monthly Net Stream Depletions for 2022 ARP Year submitted to the Colorado State Engineer’s Office on May 1, 2022. January 2023 Depletion Obligation Total: 76.81 ac-ft. 2022 Replacement Operation Total: 76.81 ac-ft (all units’ are in acre feet).

**Table 1**

<i>Date</i>	<i>Depletion Obligation</i>				<i>SD #1 Replacement Water Sources</i>									
<b>January</b>	<b>SR-1 Ac-ft.</b>	<b>SR-2 Ac-ft.</b>	<b>SR-3 Ac-ft.</b>	<b>Total Required 2022 ARP</b>	<b>Forbear SLVID SR 1&amp;2 Ac-ft.</b>	<b>Forbear SLVC SR 1&amp;2 Ac-ft.</b>	<b>Forbear MVC SR 1&amp;2 Ac-ft.</b>	<b>SLVID Tabor D 2 TM SR 1&amp;2 Ac-ft.</b>	<b>Exchange from SR 3 to SR 2</b>	<b>Santa Maria depletion Pool SR 2 Ac-ft</b>	<b>CBP Allocation SR 2 &amp; SR3 Ac-ft.</b>	<b>Accretion Exchange from SRMC SR1 to SR 2 Ac-Ft.</b>	<b>Accretion Exchange From SMRC SR 3 Ac-ft.</b>	<b>Total</b>
1	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
2	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
3	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
4	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
5	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
6	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
7	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
8	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
9	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
10	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
11	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
12	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
13	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
14	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
15	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
16	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
17	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
18	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
19	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
20	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
21	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
22	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
23	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
24	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
25	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
26	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
27	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
28	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
29	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
30	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
31	-0.5580	3.174	-0.138	2.478	0	0	0	0	0	0	2.478	0	0	2.478
<b>Totals</b>	<b>-17.299</b>	<b>98.399</b>	<b>-4.299</b>	<b>76.81</b>							<b>76.81</b>			<b>76.81</b>

**Table 2:** District 20 Rio Grande River Call for January 2023 taken from the Colorado Division of Water Resources Preliminary Rio Grande Daily Report – Division 3, District 20.

**Table 2**

January	Last Priority Served From Direct Flow	District 20 Ditch / Reservoir Being Served	Max CFS in Priority During Forbearance
1		Rio Grande Compact	0
2		Rio Grande Compact	0
3		Rio Grande Compact	0
4		Rio Grande Compact	0
5		Rio Grande Compact	0
6		Rio Grande Compact	0
7		Rio Grande Compact	0
8		Rio Grande Compact	0
9		Rio Grande Compact	0
10		Rio Grande Compact	0
11		Rio Grande Compact	0
12		Rio Grande Compact	0
13		Rio Grande Compact	0
14		Rio Grande Compact	0
15		Rio Grande Compact	0
16		Rio Grande Compact	0
17		Rio Grande Compact	0
18		Rio Grande Compact	0
19		Rio Grande Compact	0
20		Rio Grande Compact	0
21		Rio Grande Compact	0
22		Rio Grande Compact	0
23		Rio Grande Compact	0
24		Rio Grande Compact	0
25		Rio Grande Compact	0
26		Rio Grande Compact	0
27		Rio Grande Compact	0
28		Rio Grande Compact	0
29		Rio Grande Compact	0
30		Rio Grande Compact	0
31		Rio Grande Compact	0

Contact person responsible for the operation and accounting for Subdistrict No. 1:  
 Linda Ramirez Office Phone: 719-589-6301  
 Program Assistant, RGWCD

## APPENDIX B

### Ditches and Pro Rata Shares

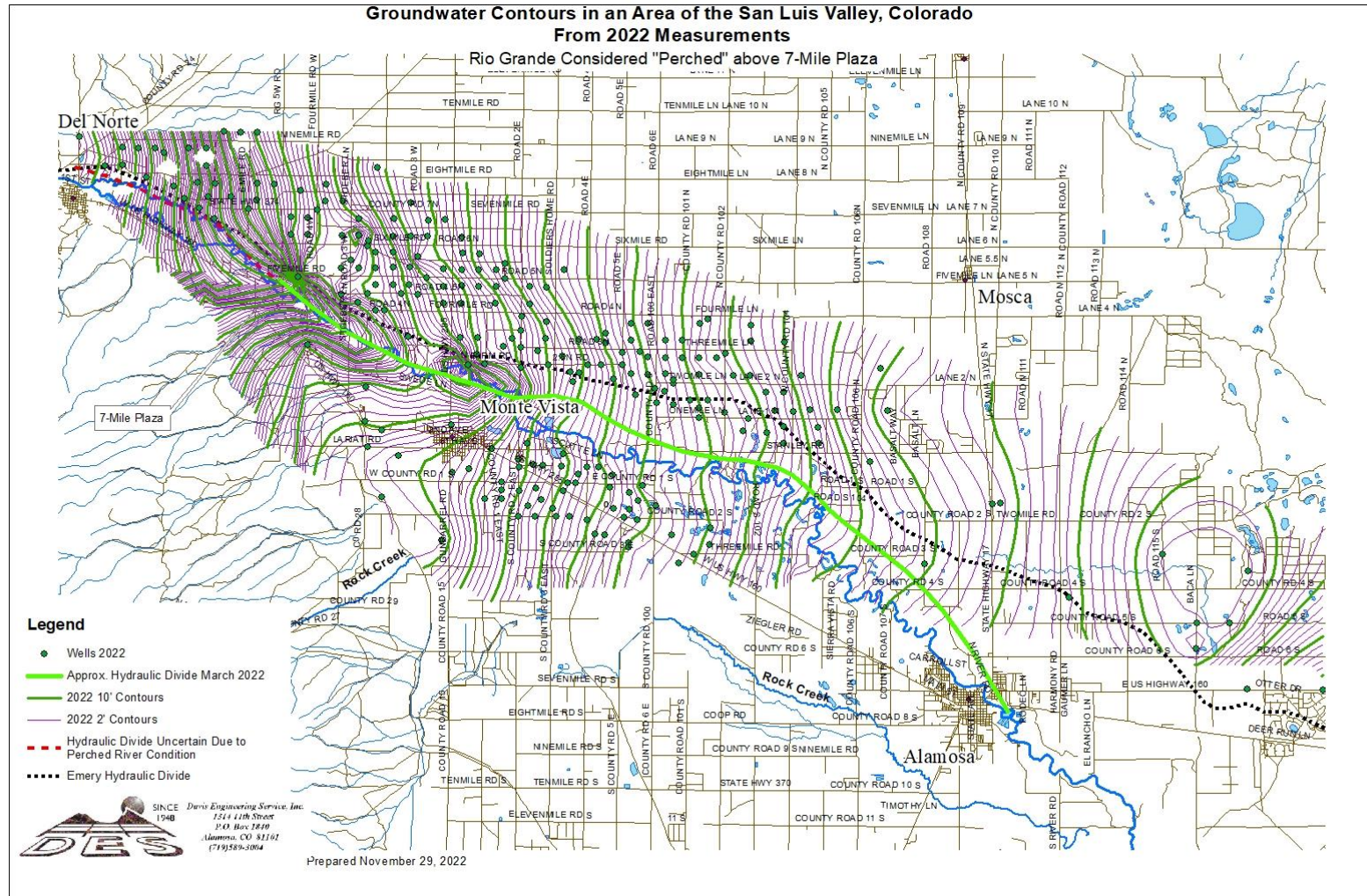
#### Summary of Ditches and Pro-Rata Shares

Allocated to Fields on Subdistrict No. 1 2022 Farm Units

WDID	Structure Name	Amount	Pro-rata Units
2000546	BILLINGS D	339	shares
2000556	BUTLER IRR D	5.8	cfs priority
2000627	EXCELSIOR D	2	shares
2000631	FARMERS UNION CNL	60,813.48	acres
2000699	KANE CALLAN D	24	cfs priority
2000736	MCDONALD D	7.4	shares
2000798	PRAIRIE D	6.999	D&L
2000798	PRAIRIE D	3	McD
2000798	PRAIRIE D	244.8	shares
2000812	RIO GRANDE CNL	918.4	in SpW
2000812	RIO GRANDE CNL	6,726.73	shares
2000812	RIO GRANDE CNL	4,725	SM
2000814	RIO GRANDE D 2	3	cfs priority
2000829	SAN LUIS VALLEY CNL	10,880.94	shares
2001105	WEE RUBY RES SUPPLY D	1	cfs priority
2700502	BIEDELL D NO 10	34.92	cfs priority
2700503	BIEDELL D NO 2	2.34	cfs priority
2700518	GREEN D NO 1	16.34	cfs priority
2700522	HOME D NO 1	32.45	cfs priority
2700523	JOHNNIE SMITH D NO 1	20	cfs
2700523	JOHNNIE SMITH D NO 1	21.35	cfs priority
2700533	MCLEOD D NO 3	0.65	cfs priority
2700537	MOODY AND HEAD D	6.12	cfs priority
2700538	OMNIBUS D	61.82	cfs priority
2700545	SHOWN D	13.08	cfs priority
2700551	WHITE D	17.9	cfs priority
2700553	WILSON D NO 4	2.08	cfs priority
2700684	LA MAGOTE D NO 2	3.64	cfs priority
2700714	MCLEOD D NO 4 & 5	3.12	cfs priority

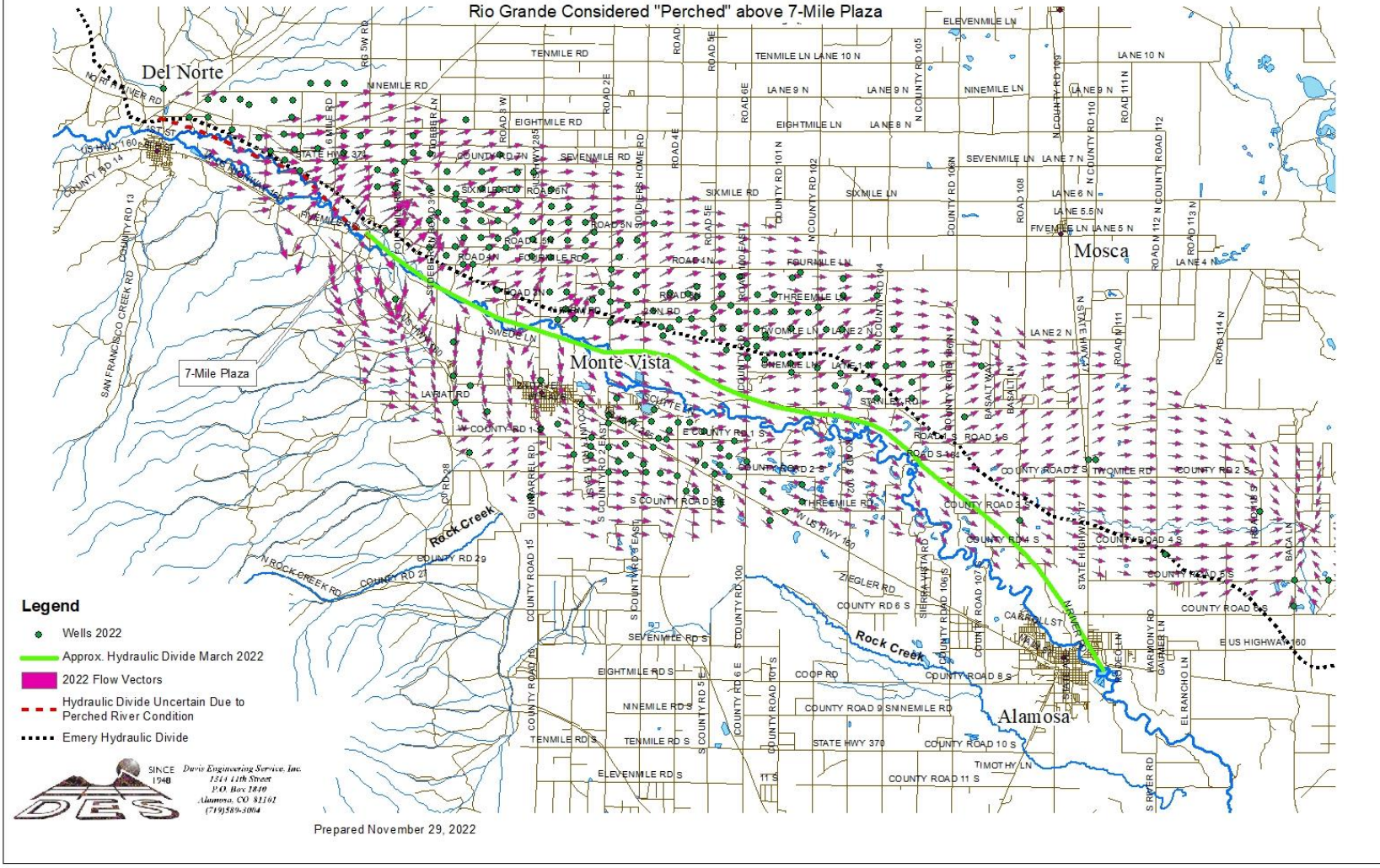
# APPENDIX C

MAPS OF HYDRAULIC DIVIDE SHOWING GROUNDWATER CONTOURS AND FLOW VECTORS PREPARED FROM SPRING 2021 WELL MEASUREMENTS



**Groundwater Flow Vectors in an Area of the San Luis Valley, Colorado**  
**From 2022 Measurements**

Rio Grande Considered "Perched" above 7-Mile Plaza





## APPENDIX D

### TABULATION OF MEASURED GROUNDWATER LEVELS IN WELLS WITHIN SUBDISTRICT NO. 1 AND CHANGE IN UNCONFINED AQUIFER STORAGE STUDY WELLS

<b>USGS 375524106020501, NA04300931CCC, RGWCD13A</b>			
<b>RG13A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
30.0	37.9264803 N	106.03490436 W	7562.51
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	8.13	7554.38	RGWCD
2/1/2022	8.15	7554.36	RGWCD
3/1/2022	8.10	7554.41	RGWCD
4/1/2022	7.99	7554.52	RGWCD
5/12/2022	7.83	7554.68	RGWCD
6/1/2022	7.91	7554.60	RGWCD
7/1/2022	8.18	7554.33	RGWCD
8/1/2022	8.20	7554.31	RGWCD
9/1/2022	8.52	7553.99	RGWCD
10/1/2022	8.58	7553.93	RGWCD
11/1/2022	8.50	7554.01	RGWCD
12/1/2022	8.36	7554.15	RGWCD
1/1/2023	8.35	7554.16	RGWCD
			RGWCD
<b>USGS 375324105553301, NA04201007CCC, RGWCD18</b>			
<b>RG18</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
57.0	37.89225365 N	105.92872105 W	7550.20
Unconfined Aquifer			

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	15.35	75.31.05	RGWCD
2/1/2022	15.32	7531.08	RGWCD
3/1/2022	15.35	7531.05	RGWCD
4/1/2022	15.30	7531.10	RGWCD
5/10/2022	15.29	7531.11	RGWCD
6/1/2022	15.27	7531.13	RGWCD
7/1/2022	15.18	7531.22	RGWCD
8/1/2022	15.20	7531.20	RGWCD
9/1/2022	15.17	7531.23	RGWCD
10/1/2022	15.17	7531.23	RGWCD
11/1/2022	15.17	7531.23	RGWCD
12/1/2022	15.15	7531.25	RGWCD
1/1/2023	15.15	7531.25	RGWCD
			RGWCD
<b>USGS 375005106092501, NA04100701BAA, RGWCD21A</b>			
<b>RG21A</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
30.0	37.83507202 N	106.15675306 W	7636.36
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/10/2022	18.53	7617.83	RGWCD, USGS
2/1/2022	18.70	7617.66	RGWCD
3/1/2022	18.88	7617.48	RGWCD
4/1/2022	19.10	7617.26	RGWCD
5/12/2022	17.26	7619.10	RGWCD, USGS
6/1/2022	16.49	7619.87	RGWCD
7/1/2022	16.69	7619.67	RGWCD
8/1/2022	16.87	7619.49	RGWCD
9/1/2022	17.23	7619.13	RGWCD

10/1/2022	18.12	7618.24	RGWCD
11/1/2022	17.17	7618.59	RGWCD
12/1/22	18.15	7618.21	RGWCD
1/1/2023	18.70	7617.66	RGWCD
<b>USGS 375016106021201, NA04200931CCC2, RGWCD22</b>			
<b>RG22</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
27.0	37.83781084 N	106.03671275 W	7580.87
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
3/1/2022	24.34	7556.53	RGWCD
4/1/2022	24.32	7556.55	RGWCD
5/12/2022	22.99	7557.88	RGWCD, USGS
-	No Measurement	No Measurement	-
<b>USGS 375010105554302, NA04200936DDD2, RGWCD23A</b>			
<b>RG23A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
56.0	37.8361106 N	105.9291867 W	7552.85
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	42.12	7510.28	RGWCD
2/1/2022	41.67	7510.94	RGWCD
3/1/2022	40.88	7511.52	RGWCD
4/1/2022	40.14	7512.26	RGWCD

5/10/2022	40.39	7512.01	RGWCD, USGS
6/1/2022	40.75	7511.65	RGWCD
7/1/2022	42.02	7510.38	RGWCD
8/1/2022	43.58	7508.82	RGWCD
9/1/2022	44.02	7508.38	RGWCD
10/1/2022	43.73	7508.67	RGWCD
11/1/2022	43.15	7509.25	RGWCD
12/1/2022	42.58	7509.82	RGWCD
1/1/2023	42.00	7510.40	RGCWD
<b>USGS 375009105503001, NA04101002ABA, RGWCD24A</b>			
<b>RG24A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
34.3	37.83712921 N	105.84191175 W	7535.80
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	16.13	7519.67	RGWCD
2/1/2022	16.16	7519.64	RGWCD
3/1/2022	16.19	7519.61	RGWCD
4/1/2022	16.24	7519.56	RGWCD
5/10/2022	16.09	7519.71	RGWCD, USGS
6/1/2022	16.09	7519.71	RGWCD
7/1/2022	16.07	7519.73	RGWCD
8/1/2022	16.15	7519.65	RGWCD
9/1/2022	16.24	7519.56	RGWCD
10/1/2022	16.21	7519.59	RGWCD
11/1/2022	16.17	7519.63	RGWCD
12/1/2022	16.20	75.19.60	RGWCD
1/1/2023	16.30	7519.50	RGWCD
<b>USGS 374410105464701, NA04001109BBB, RGWCD27A</b>			

<b>RG27A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
75.3	37.73608331 N	105.78032456 W	7537.22
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/12/2022	14.77	7518.43	RGWCD, USGS
2/1/2022	14.74	7518.46	RGWCD
3/1/2022	14.76	7518.44	RGWCD
4/5/2022	14.77	7518.43	RGWCD, USGS
5/10/2022	14.78	7518.42	RGWCD, USGS
6/1/2022	14.71	7518.49	RGWCD
7/1/2022	14.79	7518.41	RGWCD
8/1/2022	14.79	7518.41	RGWCD
9/1/2022	14.83	7518.37	RGWCD
10/1/2022	14.85	7518.35	RGWCD
11/1/2022	14.90	7518.30	RGWCD
12/1/2022	15.01	7518.19	RGWCD
1/1/2023	14.96	7518.24	RGWCD
<b>USGS 374704105590002, NA04100921DAA, RGWCD28-1</b>			
<b>RG28-1</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
32.0	37.78448396 N	105.98354869 W	7579.49
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-

<b>USGS 374505105554001, NA04100936DDA, RGWCD28A</b>			
<b>RG28A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
53.0	37.75197957 N	105.92816372 W	7571.95
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	40.56	7531.39	RGWCD
2/1/2022	40.31	7531.64	RGWCD
3/1/2022	40.22	7531.73	RGWCD
4/1/2022	40.07	7531.88	RGWCD
5/6/2022	40.47	7531.48	RGWCD, USGS
6/1/2022	40.59	7531.36	RGWCD
7/1/2022	40.68	7531.27	RGWCD
8/1/2022	41.74	7530.21	RGWCD
9/1/2022	42.23	7529.72	RGWCD
10/1/2022	42.26	7529.69	RGWCD
11/1/2022	42.13	7529.82	RGWCD
12/1/2022	42.02	7529.93	RGWCD
1/1/2023	41.88	7530.07	RGWCD
<b>USGS 374446106022001, NA04000801AAD, RGWCD29</b>			
<b>RG29</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
25.0	37.74568511 N	106.03849378 W	7608.27
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-

<b>RGWCD29A</b>			
<b>RG29A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
-	37.74810207 N	106.03860429 W	7608.95
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	34.92	7574.03	RGWCD
2/1/2022	34.61	7574.34	RGWCD
3/1/2022	34.38	7574.57	RGWCD
4/1/2022	34.20	7574.75	RGWCD
5/12/2022	34.77	7574.18	RGWCD, USGS
6/1/2022	34.10	7574.85	RGWCD
7/1/2022	35.90	7573.05	RGWCD
8/1/2022	36.53	7572.42	RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
<b>USGS 374736106053404, NA04100815CCC4, RGWCD29-1</b>			
<b>RG29-1</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
30.3	37.79492139 N	106.09337319 W	7622.47
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-

<b>USGS 374455106085501, NA04100831CCC, RGWCD31</b>			
<b>RG31</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
73.0	37.74863225 N	106.14876475 W	7668.30
<b>Unconfined Aquifer</b>			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/11/2022	43.48	7625.52	RGWCD, USGS
2/4/2022	43.61	7625.39	RGWCD, USGS
3/3/2022	43.63	7625.37	RGWCD, USGS
4/12/2022	43.75	7625.25	RGWCD, USGS
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
7/12/2022	45.04	7623.96	RGWCD, USGS
8/9/2022	45.14	7623.86	RGWCD, USGS
9/8/2022	44.64	7624.36	RGWCD, USGS
10/13/2022	45.02	7623.98	RGWCD, USGS
11/9/2022	45.01	7623.99	RGWCD, USGS
12/7/2022	44.57	7624.43	RGWCD, USGS
1/11/2023	44.68	7624.32	RGWCD, USGS
<b>USGS 374500106153401, NA04100636DDD, RGWCD33B</b>			
<b>RG33B</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>



130.0	37.75035656 N	106.25933339 W	7755.58
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	80.11	7675.47	RGWCD
2/1/2022	80.15	7675.43	RGWCD
3/1/2022	80.42	7675.16	RGWCD
4/1/2022	80.50	7675.08	RGWCD
5/12/2022	82.23	7673.35	RGWCD
6/1/2022	83.31	7672.27	RGWCD
7/1/2022	84.17	7671.41	RGWCD
8/1/2022	84.30	7671.28	RGWCD
9/1/2022	84.27	7671.31	RGWCD
10/1/2022	83.99	7671.59	RGWCD
11/1/2022	83.38	7672.20	RGWCD
12/1/2022	82.96	7672.62	RGWCD
1/1/2023	82.55	7673.03	RGWCD
<b>USGS 374046106163801, NA04000625CBC, RGWCD35</b>			
<b>RG35</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
48.0	37.67986113 N	106.27752283 W	7810.76
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/12/2022	26.96	7783.80	RGWCD,USGS
6/3/2022	30.15	7780.61	RGWCD,USGS
7/12/2022	33.83	7776.93	RGWCD
8/9/2022	33.89	7776.87	RGWCD

9/9/2022	36.50	7774.26	RGWCD,USGS
-	No Measurement	No Measurement	-
<b>RGWCD35A</b>			
<b>RG35A</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
-	37.67984318 N	106.27752760 W	7811.09
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	45.51	7765.58	RGWCD
2/1/2022	47.64	7763.45	RGWCD
3/1/2022	49.27	7761.82	RGWCD
4/1/2022	50.58	7760.51	RGWCD
5/12/2022	50.38	7760.71	RGWCD
6/1/2022	50.56	7760.53	RGWCD
7/1/2022	50.50	7760.59	RGWCD
8/1/2022	49.94	7761.15	RGWCD
9/1/2022	49.57	7761.52	RGWCD
10/1/2022	50.00	7761.09	RGWCD
11/1/2022	49.63	7761.46	RGWCD
12/1/2022	49.24	7761.85	RGWCD
1/1/2023	49.85	7761.24	RGWCD
<b>USGS 373924106082501, NA03900806BCB, RGWCD37</b>			
<b>RG37</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
37.0	37.65664607 N	106.14877939 W	7683.30
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>

1/12/2022	36.41	7647.33	RGWCD, USGS
2/4/2022	36.40	7647.34	RGWCD, USGS
3/1/2022	37.38	7646.36	RGWCD
4/1/2022	37.38	7646.36	RGWCD
5/12/2022	37.10	7646.64	RGWCD, USGS
6/1/2022	36.31	7647.43	RGWCD
7/12/2022	38.84	7644.90	RGWCD, USGS
-	No Measurement	No Measurement	-
9/9/2022	39.07	7644.90	RGWCD, USGS
10/13/2022	38.02	7645.72	RGWCD
11/9/2022	36.90	7646.84	RGWCD
12/7/2022	36.41	7647.33	RGWCD
1/11/2023	36.27	7647.47	RGWCD
<b>USGS 374210106053001, NA04000815CCC, RGWCD37-1</b>			
<b>RG37-1</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
100.0	37.70511497 N	106.09358614 W	7642.92
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	38.82	7604.10	RGWCD
2/1/2022	38.65	7604.27	RGWCD
3/1/2022	38.53	7604.39	RGWCD
4/1/2022	38.40	7604.52	RGWCD
5/10/2022	38.42	7604.50	RGWCD, USGS
6/1/2022	38.30	7604.62	RGWCD
7/1/2022	40.06	7602.86	RGWCD
8/1/2022	41.38	7601.54	RGWCD
9/1/2022	41.17	7601.75	RGWCD

10/1/2022	40.52	7602.40	RGWCD
11/1/2022	40.46	7602.46	RGWCD
12/1/2022	40.05	7602.87	RGWCD
1/1/2023	39.82	7603.10	RGWCD
<b>USGS 373944106022001, NA04000931CCC, RGWCD39</b>			
<b>RG39</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
28.0	37.66177691 N	106.03886731 W	7616.65
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	26.59	7591.60	RGWCD
2/1/2022	26.27	7591.92	RGWCD
3/1/2022	26.07	7592.12	RGWCD
4/1/2022	25.93	7592.26	RGWCD
5/12/2022	25.05	7593.14	RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
<b>USGS 374220105585801, NA04000916DDD, RGWCD39-1</b>			
<b>RG39-1</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
29.2	37.70534055 N	105.98357822 W	7590.86
Unconfined Aquifer			

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	27.08	7563.78	RGWCD
2/1/2022	26.89	7563.97	RGWCD
3/1/2022	26.76	7564.10	RGWCD
4/1/2022	26.50	7564.36	RGWCD
5/10/2022	26.54	7564.32	RGWCD, USGS
6/1/2022	26.60	7564.26	RGWCD
7/1/2022	27.03	7563.83	RGWCD
8/1/2022	27.94	7562.92	RGWCD
9/1/2022	28.47	7562.39	RGWCD
10/1/2022	28.99	7561.87	RGWCD
11/1/2022	28.99	7561.87	RGWCD
12/1/2022	28.73	7562.13	RGWCD
1/1/2023	28.48	7562.38	RGWCD
<b>USGS 373944105553701, NA03901006BBB, RGWCD40</b>			
<b>RG40</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
28.0	37.66183616 N	105.92740756 W	7575.14
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	17.83	7558.10	RGWCD
2/1/2022	17.60	7558.33	RGWCD
3/1/2022	17.48	7558.45	RGWCD
4/1/2022	17.34	7558.59	RGWCD
5/6/2022	17.28	7558.65	RGWCD,USGS
6/1/2022	16.50	7559.43	RGWCD
7/1/2022	17.96	7557.97	RGWCD
8/1/2022	19.71	7556.22	RGWCD
9/1/2022	19.70	7556.23	RGWCD
10/1/2022	19.53	7556.40	RGWCD

11/1/2022	19.10	7556.83	RGWCD
12/1/2022	18.52	7557.41	RGWCD
1/1/2023	18.22	7557.71	RGWCD
<b>USGS 373947105490701, NA03901106BBB, RGWCD41</b>			
<b>RG41</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
27.0	37.66237308 N	105.81863525 W	7542.08
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	10.98	7531.10	RGWCD
2/1/2022	11.06	7531.02	RGWCD
3/1/2022	11.13	7530.95	RGWCD
4/1/2022	11.22	7530.86	RGWCD
5/6/2022	11.23	7530.85	RGWCD
6/1/2022	10.30	7531.78	RGWCD
7/1/2022	10.67	7531.41	RGWCD
8/1/2022	10.94	7531.14	RGWCD
9/1/2022	11.14	7530.94	RGWCD
10/1/2022	11.32	7530.76	RGWCD
11/1/2022	11.49	7530.59	RGWCD
12/1/2022	11.60	7530.48	RGWCD
1/1/2023	11.69	7530.39	RGWCD
<b>USGS 373433105513201, NA03901034DDD, RGWCD49</b>			
<b>RG49</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
30.0	37.57517204 N	105.85856339 W	7548.69
Unconfined Aquifer			

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	8.06	7541.09	RGWCD
2/1/2022	8.10	7541.05	RGWCD
3/1/2022	8.10	7541.05	RGWCD
4/1/2022	8.10	7541.05	RGWCD
5/10/2022	7.83	7541.32	RGWCD, USGS
6/1/2022	7.83	7541.32	RGWCD
7/1/2022	7.96	7541.19	RGWCD
8/1/2022	7.97	7541.18	RGWCD
9/1/2022	8.14	7541.01	RGWCD
10/1/2022	8.22	7540.93	RGWCD
11/1/2022	8.19	7540.96	RGWCD
12/1/2022	8.21	7540.94	RGWCD
1/1/2023	8.18	7540.97	RGWCD

**USGS 373429105554001, NA03901031CCC, RGWCD50A**

**RG50A**

Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
25.0	37.57448259 N	105.92832561 W	7569.82

Unconfined Aquifer

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	15.15	7556.29	RGWCD
2/1/2022	15.17	7556.27	RGWCD
3/1/2022	15.15	7556.29	RGWCD
4/1/2022	15.03	7556.41	RGWCD
5/10/2022	14.43	7557.01	RGWCD, USGS
6/1/2022	13.70	7557.74	RGWCD
7/1/2022	14.59	7556.85	RGWCD
8/1/2022	14.86	7556.58	RGWCD
9/1/2022	15.00	7556.44	RGWCD
10/1/2022	15.11	7556.33	RGWCD

11/1/2022	15.13	7556.31	RGWCD
12/1/2022	15.02	7556.42	RGWCD
1/1/2023	14.95	7556.49	RGWCD
<b>USGS 373704105593401, NA03900921BAA1, RGWCD50-1</b>			
<b>RG50-1</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
32.5	37.61788754 N	105.99401756 W	7594.77
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/1/2022	17.52	7577.46	RGWCD
2/1/2022	17.32	7577.66	RGWCD
3/1/2022	17.24	7577.74	RGWCD
4/1/2022	17.05	7577.93	RGWCD
5/1/2022	17.31	7577.67	RGWCD
6/1/2022	17.79	7577.19	RGWCD
7/1/2022	19.48	7575.50	RGWCD
8/1/2022	20.76	7574.22	RGWCD
9/1/2022	20.79	7574.19	RGWCD
10/1/2022	20.02	7574.96	RGWCD
11/1/2022	19.61	7575.37	RGWCD
12/1/2022	19.27	7575.71	RGWCD
1/1/2023	18.96	7576.02	RGWCD
<b>USGS 373438106022101, NA03900931CCB, RGWCD51</b>			
<b>RG51</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
27.0	37.57691792 N	106.03893236 W	7602.3
Unconfined Aquifer			



Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	6.07	7598.01	RGWCD
2/1/2022	6.02	7598.06	RGWCD
3/1/2022	6.08	7598.00	RGWCD
4/1/2022	6.05	7598.03	RGWCD
5/12/2022	4.59	7599.49	RGWCD, USGS
6/1/2022	5.55	7598.53	RGWCD
7/1/2022	5.95	7598.13	RGWCD
8/1/2022	5.41	7598.67	RGWCD
9/1/2022	6.18	7597.90	RGWCD
10/1/2022	6.35	7597.73	RGWCD
11/1/2022	6.27	7597.81	RGWCD
12/1/2022	6.12	7597.96	RGWCD
1/1/2023	6.15	7597.93	RGWCD

**USGS 373705106051701, NA03900815CDC, RGWCD51-1**

**RG51-1**

Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
30.0	37.61804315 N	106.08926406 W	7638.71

Unconfined Aquifer

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/1/2022	13.86	7625.74	RGWCD
2/1/2022	13.93	7625.67	RGWCD
3/1/2022	14.03	7625.57	RGWCD
4/1/2022	14.09	7625.51	RGWCD
5/10/2022	11.12	7628.48	RGWCD
6/1/2022	11.09	7628.51	RGWCD
7/1/2022	12.57	7627.03	RGWCD
8/1/2022	13.88	7625.72	RGWCD
9/1/2022	13.45	7626.15	RGWCD
10/1/2022	14.23	7625.37	RGWCD

11/1/2022	13.85	7625.75	RGWCD
12/1/2022	13.83	7625.77	RGWCD
1/1/2023	13.90	7625.70	RGWCD

**USGS 374030106020001, NA04000931BAB, RGWCD ALA 2**

**ALA 2**

<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
415.0	37.67500094 N	106.03391380 W	7614.27

Confined Aquifer

<b>Date</b>	<b>Artesian Pressure Head Below Ground (ft.)*</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/29/2022	-7.97	7622.03	RGWCD
2/22/2022			RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/17/2022	-8.16	7622.22	RGWCD
6/14/2022	-7.36	7621.42	RGWCD
7/14/2022	-6.45	7620.51	RGWCD
8/18/2022	-5.34	7619.40	RGWCD
9/19/2022	-5.12	7619.18	RGWCD
10/17/2022	-5.82	7619.88	RGWCD
11/22/2022	-6.78	7620.84	RGWCD
12/20/2022	-7.31	7621.37	RGWCD
2/28/2023	-8.22	7622.28	RGWCD

\*Preliminary Measurement

**USGS 373457106003801, NA03900932BCC, RGWCD ALA10**

**ALA 10**

<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
2084.0	37.58139100 N	106.02141390 W	7596.20

Confined Aquifer

Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/29/2022	-16.55	7614.93	RGWCD
2/22/2022	-16.12	7614.50	RGWCD
3/16/22	-19.41	7617.79	RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/20/2022	-16.06	7614.44	RGWCD
6/16/2022	-14.52	7612.90	RGWCD
7/22/2022	-13.32	7611.70	RGWCD
8/23/2022	-12.46	7610.84	RGWCD
9/27/2022	-11.41	7609.79	RGWCD
10/21/2022	-11.89	7610.27	RGWCD
11/21/2022	-14.86	7613.24	RGWCD
12/12/2022	-16.04	7614.42	RGWCD
*Preliminary Measurement			
USGS 373748105511501, NA03901014BBC, RGWCD ALA 13			
ALA 13			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
2150.0	37.63000180 N	105.85474300 W	7551.8
Confined Aquifer			
Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/31/2022	-10.66	7565.99	RGWCD
2/15/2022	-10.56	7565.89	RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
8/18/2022	14.86	7540.47	RGWCD
9/19/2022	14.28	7541.05	RGWCD
10/17/2022	3.22	7552.11	RGWCD
11/22/2022	-5.40	7560.73	RGWCD

12/10/2022	-6.60	7561.93	RGWCD
1/28/2023	-5.95	7561.28	RGWCD
*Preliminary Measurement			
<b>USGS 373633106040901, NA03900823CAB, RGWCD RIO 3</b>			
<b>RIO 3</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
199.0	37.60916667 N	106.06916670 W	7629.37
Confined Aquifer			
<b>Date</b>	<b>Artesian Pressure Head Below Ground (ft.)*</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-
*Preliminary Measurement			
<b>USGS 373620106054001, NA03900821DDA, RGWCD RIO 4</b>			
<b>RIO 4</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
986.0	37.60555786 N	106.09502700 W	7636.44
Confined Aquifer			
<b>Date</b>	<b>Artesian Pressure Head Below Ground (ft.)*</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/20/2022	0.68	7636.60	RGWCD
2/22/2022	0.37	7636.91	RGWCD
-	No Measurement	No Measurement	-
4/25/2022	0.75	7636.53	RGWCD
5/20/2022	1.20	7636.08	RGWCD
6/16/2022	2.32	7634.96	RGWCD
7/18/2022	2.83	7634.45	RGWCD
8/23/2022	3.24	7634.04	RGWCD
9/23/2022	3.56	7633.72	RGWCD
10/24/2022	2.46	7634.82	RGWCD
11/16/2022	1.94	7635.34	RGWCD

12/14/2022	1.06	7636.22	RGWCD
1/27/2023	0.55	7636.73	RGWCD
*Preliminary Measurement			
USGS 375035106105501, NA04200735BCC, RGWCD SAG 1			
SAG 1			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
825.0	37.84305656 N	106.18252770 W	7651.62
Confined Aquifer			
<b>Date</b>	<b>Artesian Pressure Head Below Ground (ft.)*</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/28/2022	27.83	7623.04	RGWCD
2/24/2022	27.23	7623.64	RGWCD
-	No Measurement	No Measurement	-
4/26/2022	28.54	7622.33	RGWCD
5/23/2022	29.51	7621.36	RGWCD
6/16/2022	30.29	7620.58	RGWCD
7/28/2022	31.90	7618.97	RGWCD
8/24/2022	31.98	7618.89	RGWCD
9/26/2022	30.02	7620.85	RGWCD
10/26/2022	28.42	7622.45	RGWCD
11/26/2022	27.28	7623.59	RGWCD
12/21/2022	26.82	7624.05	RGWCD
1/28/2023	27.22	7623.65	RGWCD
*Preliminary Measurement			
USGS 375310106021501, NA04200907CCC, RGWCD SAG 2			
SAG 2			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
1987.0	37.73608331 N	105.78032456 W	7567.15
Confined Aquifer			

Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/30/2022	-41.52	7607.87	RGWCD
-	No Measurement	No Measurement	-
3/29/2022	-42.35	7608.70	RGWCD
-	No Measurement	No Measurement	-
5/23/2022	-42.79	7609.14	RGWCD
6/17/2022	-42.16	7608.51	RGWCD
7/28/2022	-39.05	7605.40	RGWCD
8/24/2022	-37.89	7604.24	RGWCD
9/26/2022	-37.87	7604.22	RGWCD
10/26/2022	-39.25	7605.60	RGWCD
11/26/2022	-40.53	7606.88	RGWCD
12/21/2022	-41.38	7607.73	RGWCD
1/28/2023	-43.15	7609.50	RGWCD

\*Preliminary Measurement

**USGS 375155106021501, NA04200919CCC1, RGWCD SAG 4**

**SAG 4**

Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
2301.0	37.86527760 N	106.03807770 W	7572.18

Confined Aquifer

Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/30/2022	-43.79	7618.11	RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/23/2022	-43.57	7617.89	RGWCD
6/17/2022	-42.85	7617.17	RGWCD
7/28/2022	-38.98	7613.30	RGWCD
8/24/2022	-39.35	7613.67	RGWCD
9/26/2022	-39.75	7614.07	RGWCD
10/26/2022	-42.01	7616.33	RGWCD
11/26/2022	-43.71	7618.03	RGWCD

12/21/2022	-44.66	7618.98	RGWCD
1/28/2023	-45.36	7619.68	RGWCD
*Preliminary Measurement			
USGS 375154106102501, NA04200723CDD, RGWCD SAG 6			
SAG 6			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
120.0	37.86500084 N	106.17419380 W	7634.59
Confined Aquifer			
<b>Date</b>	<b>Artesian Pressure Head Below Ground (ft.)*</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/28/2022	14.89	7620.42	RGWCD
2/24/2022	14.60	7620.71	RGWCD
-	No Measurement	No Measurement	-
4/26/2022	16.30	7619.01	RGWCD
5/23/2022	17.68	7617.63	RGWCD
6/16/2022	19.36	7615.95	RGWCD
-	No Measurement	No Measurement	-
8/24/2022	19.80	7615.51	RGWCD
-	No Measurement	No Measurement	-
10/26/2022	17.01	7618.30	RGWCD
11/26/2022	15.58	7619.73	RGWCD
12/21/2022	15.14	7620.17	RGWCD
1/28/2023	14.73	7620.58	RGWCD
*Preliminary Measurement			
USGS 375255106084401, NA04200818CCB, RGWCD SAG 9			
SAG 9			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
900.0	37.88194500 N	106.14613690 W	7609.52
Confined Aquifer			

Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/24/2022	-6.00	7616.90	RGWCD
6/17/2022	-4.37	7615.27	RGWCD
7/28/2022	-1.46	7612.36	RGWCD
8/24/2022	-2.37	7613.27	RGWCD
9/26/2022	-2.92	7613.82	RGWCD
10/26/2022	-4.31	7615.21	RGWCD
11/26/2022	-6.71	7617.61	RGWCD
12/21/2022	-7.77	7618.67	RGWCD
			RGWCD
*Preliminary Measurement			
USGS 375310106050001, NA04200815ACC, RGWCD SAG 10			
SAG 10			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
2087.0	37.88638899 N	106.08196780 W	7584.32
Confined Aquifer			
Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
3/31/2022	-31.37	7615.86	RGWCD
-	No Measurement	No Measurement	-
5/24/2022	-31.45	7615.94	RGWCD
6/17/2022	-29.88	7614.37	RGWCD
7/28/2022	-24.22	7608.71	RGWCD
8/24/2022	-26.02	7610.51	RGWCD
9/26/2022	-27.30	7611.79	RGWCD
10/26/2022	-29.35	7613.84	RGWCD
11/26/2022	-31.39	7615.88	RGWCD



12/21/2022	-32.52	7617.01	RGWCD
-	No Measurement	No Measurement	-
*Preliminary Measurement			
USGS 375009106021001, NA04200931CCC, RGWCD SAG 11			
SAG 11			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
1350.0	37.83583318 N	106.03668950 W	7582.21
Confined Aquifer			
<b>Date</b>	<b>Artesian Pressure Head Below Ground (ft.)*</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-
2/25/2022	-32.59	7613.80	RGWCD
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/23/2022	-33.10	7614.31	RGWCD
6/16/2022	-32.28	6713.49	RGWCD
7/22/2022	-29.59	7610.80	RGWCD
8/24/2022	-28.53	7609.74	RGWCD
9/26/2022	-29.16	7610.37	RGWCD
10/26/2022	-30.67	7611.88	RGWCD
11/22/2022	-31.77	7612.98	RGWCD
12/12/2022	-32.69	7613.90	RGWCD
-	No Measurement	No Measurement	-
*Preliminary Measurement			
USGS 374915106013001, NA04100906DCD, RGWCD SAG 17			
SAG 17			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
700.0	37.82111088 N	106.02557830 W	7583.18
Confined Aquifer			

Date	Artesian Pressure Head Below Ground (ft.)*	Water Level Elevation (ft. NAVD88)	Data Source(s)
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
5/23/2022	-25.54	7608.67	RGWCD
6/16/2022	-25.30	7608.43	RGWCD
7/22/2022	-24.11	7607.24	RGWCD
8/24/2022	-24.30	7607.43	RGWCD
9/26/2022	-21.62	7604.75	RGWCD
10/26/2022	-21.93	7605.06	RGWCD
11/22/2022	-21.93	7605.70	RGWCD
12/12/2022	-22.95	7606.08	RGWCD
-	No Measurement	No Measurement	-
<b>*Preliminary Measurement</b>			
<b>USGS 373450105592901, NA03900933ABA</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
86.0	37.58871896 N	105.98975942 W	7593.61
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/25/2022	13.39	7580.22	USGS
-	No Measurement	No Measurement	-
<b>USGS 373820105541501, NA03901008ABB</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
104.0	37.64725136 N	105.90088300 W	7567.84
Confined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)

1/25/2022	13.22	7554.62	USGS
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
7/19/2022	15.62	7552.22	USGS
<b>USGS 373855105490901, NA03901001DDD1</b>			
<b>EW-32U</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
45.0	37.64852484 N	105.81991496 W	7542.15
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	7.48	7534.67	USBR
2/15/2022	7.45	7534.70	USBR
3/15/2022	7.46	7534.69	USBR
4/15/2022	7.45	7534.70	USBR
5/15/2022	7.45	7534.70	USBR
6/15/2022	7.50	7534.65	USBR
-	No Measurement	No Measurement	-
<b>USGS 373855105490902, NA03901001DDD2</b>			
<b>EW-32C</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
200.0	37.64852484 N	105.81991496 W	7542.15
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	8.81	7533.34	USBR
2/15/2022	8.60	7533.55	USBR

3/15/2022	8.46	7533.69	USBR
4/15/2022	8.35	7533.80	USBR
5/15/2022	9.28	7532.87	USBR
6/15/2022	9.03	7533.12	USBR
-	No Measurement	No Measurement	-
<b>USGS 373950105534001, NA04001033BCB</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
135.0	37.67158430 N	105.89138270 W	7562.85
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	15.38	7547.47	USGS
-	No Measurement	No Measurement	-
<b>USGS 374002106021401, NA04000931BBC</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
86.0	37.67227880 N	106.03871950 W	7616.29
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	26.99	7589.3	USGS
-	No Measurement	No Measurement	-
<b>USGS 374110105565501, NA04000924CCC</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
62.0	37.69111165 N	105.94621710 W	7579.96
Unconfined Aquifer			

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
-	No Measurement	No Measurement	-
<b>USGS 374224105493901, NA04001024BAA1</b>			
<b>EW-33U</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
45.0	37.70649518 N	105.82779667 W	7545.29
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/15/2022	22.94	7522.35	USBR
2/25/2022	22.74	7522.55	USBR
3/15/2022	22.60	7522.69	USBR
4/15/2022	22.49	7522.80	USBR
5/15/2022	22.41	7522.88	USBR
6/15/2022	22.56	7522.73	USBR
-	No Measurement	No Measurement	-
<b>USGS 374224105493902, NA04001024BAA2</b>			
<b>EW-33C</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
152.0	37.70649518 N	105.82779667 W	7545.29
Confined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/15/2022	21.40	7523.89	USBR
2/15/2022	21.14	7524.15	USBR
3/15/2022	21.09	7524.20	USBR
4/15/2022	21.56	7523.73	USBR
5/15/2022	25.24	7520.05	USBR

6/15/2022	24.59	7520.70	USBR
-	No Measurement	No Measurement	-
<b>USGS 374315105513001, NA04001011CBB</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
84.0	37.72800006 N	105.85457610 W	7550.86
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	23.73	7527.13	USGS
<b>USGS 374407105511601, NA04001010AAA1</b>			
<b>EW-35U</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
45.0	37.73525282 N	105.85502763 W	7548.76
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	20.80	7527.96	USBR
2/15/2022	20.64	7528.12	USBR
3/15/2022	20.52	7528.24	USBR
4/15/2022	20.42	7528.34	USBR
5/15/2022	20.50	7528.26	USBR
6/15/2022	20.70	7528.06	USBR
-	No Measurement	No Measurement	-
<b>USGS 374407105511602, NA04001010AAA2</b>			
<b>EW-35C</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
130.0	37.73525282 N	105.85502763 W	7548.76
Confined Aquifer			

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/15/2022	20.43	7528.33	USBR
2/15/2022	20.29	7528.47	USBR
3/15/2022	20.27	7528.49	USBR
4/15/2022	20.52	7528.24	USBR
5/15/2022	22.16	7526.60	USBR
6/15/2022	27.98	7520.78	USBR
-	No Measurement	No Measurement	-
<b>USGS 373640106032002, NA03900824BBB2</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
77.0	37.61727967 N	106.05749800 W	7623.34
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/25/2022	18.92	7604.42	USGS
-	No Measurement	No Measurement	-
<b>USGS 373828106071502, NA03900808ABB2</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
54.0	37.64708002 N	106.12105186 W	7660.77
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/25/2022	29.47	7631.3	USGS
-	No Measurement	No Measurement	-
<b>USGS 373830106094001, NA03900712BAB</b>			

<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
107.0	37.64721312	-106.1630196	USGS

Unconfined Aquifer

<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	33.05	7661.33	USGS
-	No Measurement	No Measurement	-

**USGS 373920106113001, NA03900703ABB**

<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
100.0	37.66029452 N	106.19497384 W	7726.4

Unconfined Aquifer

<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	44.91	7681.49	USGS
-	No Measurement	No Measurement	-

**USGS 373924106084801, NA03900806BBB**

<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
14.0	37.66108539 N	106.14822280 W	7684.6

Unconfined Aquifer

<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	12.16	7672.44	USGS
-	No Measurement	No Measurement	-

**USGS 374032106060202, NA04000828DBB2**



<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
50.0	37.6828903	-106.1029714	USGS
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-
<b>USGS 374245106025501, NA04000813ABB1</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
60.0	37.71902825 N	106.04766400 W	7616.34
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	33.16	7583.18	USGS
-	No Measurement	No Measurement	-
<b>USGS 374305106163701, NA04000614AAA</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
21.0	37.7191413	106.279449	7798.67
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
<b>USGS 374350106025001, NA04000801DCC</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft.)</b>

			<b>NAVD88)</b>
70.0	37.73397250 N	106.04746950 W	7616.35
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	33.42	7582.93	USGS
-	No Measurement	No Measurement	-
<b>USGS 374415106063002, NA04000804BCC2</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
90.0	37.74166749 N	106.11188800 W	7645.53
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	43.16	7602.37	USGS
-	No Measurement	No Measurement	-
<b>USGS 374549105540201, NA04101032ABB1</b>			
<b>EW-40U</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
45.0	37.76367186 N	105.90050172 W	7555.25
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	29.99	7525.26	USBR
2/15/2022	29.90	7525.35	USBR
3/15/2022	29.87	7525.38	USBR
4/15/2022	29.77	7525.48	USBR
5/15/2022	29.90	7525.35	USBR
6/15/2022	30.03	7525.22	USBR

-	No Measurement	No Measurement	-
<b>USGS 374549105540202, NA04101032ABB2</b>			
<b>EW-40C</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
140.0	37.76367186 N	105.90050172 W	7555.25
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	29.83	7525.42	USBR
2/15/2022	29.66	7525.59	USBR
3/15/2022	29.56	7525.69	USBR
4/15/2022	29.59	7525.66	USBR
5/15/2022	29.85	7525.40	USBR
6/15/2022	32.62	7522.63	USBR
-	No Measurement	No Measurement	-
<b>USGS 374630106010501, NA04100920CCC</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
112.0	37.77838865 N	106.02046800 W	7591.21
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/25/2022	38.61	7552.6	USGS
-	No Measurement	No Measurement	-
<b>USGS 374725106053003, NA04100815CCC3</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
95.0	37.79202820 N	106.09330340 W	7622.46
Unconfined Aquifer			

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/25/2022	39.29	7583.17	USGS
-	No Measurement	No Measurement	-
<b>USGS 374734105543501, NA04101018DDD1</b>			
<b>EW-41U</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
45.0	37.79284300 N	105.91032426 W	7554.95
Unconfined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/15/2022	36.93	7518.02	USBR
2/15/2022	36.62	7518.33	USBR
3/15/2022	36.38	7518.57	USBR
4/15/2022	36.17	7518.78	USBR
5/15/2022	36.53	7518.42	USBR
6/15/2022	37.15	7517.80	USBR
-	No Measurement	No Measurement	-
<b>USGS 374734105543502, NA04101018DDD2</b>			
<b>EW-41C</b>			
Well Depth (ft.)	Latitude (NAD83)	Longitude (NAD83)	Ground Elevation (ft. NAVD88)
	37.79284300 N	105.91032426 W	7554.95
Confined Aquifer			
Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/15/2022	36.11	7518.84	USBR
2/15/2022	35.78	7519.17	USBR
3/15/2022	35.61	7519.34	USBR
4/15/2022	36.49	7518.46	USBR
5/15/2022	37.52	7517.43	USBR

6/15/2022	38.12	7516.83	USBR
-	No Measurement	No Measurement	-
<b>USGS 374918105561401, NA04100901DCD1</b>			
<b>EW-48U</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
45.0	37.82160275 N	105.93785390 W	7559.88
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
-	No Measurement	No Measurement	-
4/15/2022	43.79	7516.09	USBR
5/15/2022	43.59	7516.29	USBR
6/15/2022	43.60	7516.28	USBR
-	No Measurement	No Measurement	-
<b>USGS 374918105561402, NA04100901DCD2</b>			
<b>EW-48C</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
120.0	37.82160275 N	105.93785390 W	7559.88
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	43.78	7516.1	USBR
2/15/2022	43.42	7516.46	USBR
3/15/2022	43.19	7516.69	USBR
4/15/2022	42.94	7516.94	USBR
5/15/2022	43.41	7516.47	USBR
6/15/2022	44.19	7515.69	USBR
-	No Measurement	No Measurement	-

<b>USGS 375011105575401, NA04200934DDD1</b>			
<b>EW-49U</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
45.0	37.83609425 N	105.96537466 W	7560.23
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	30.22	7530.01	USBR
2/15/2022	29.91	7530.32	USBR
3/15/2022	29.69	7530.54	USBR
4/15/2022	29.47	7530.76	USBR
5/15/2022	29.61	7530.62	USBR
6/15/2022	30.07	7530.16	USBR
-	No Measurement	No Measurement	-
<b>USGS 375011105575402, NA04200934DDD2</b>			
<b>EW-49C</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
120.0	37.83609425 N	105.96537466 W	7560.23
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	30.16	7530.07	USBR
2/15/2022	29.88	7530.35	USBR
3/15/2022	29.68	7530.55	USBR
4/15/2022	29.61	7530.62	USBR
5/15/2022	29.96	7530.27	USBR
6/15/2022	30.29	7529.94	USBR
-	No Measurement	No Measurement	-
<b>USGS 375100105554201, NA04200936AAA1</b>			
<b>EW-50U</b>			

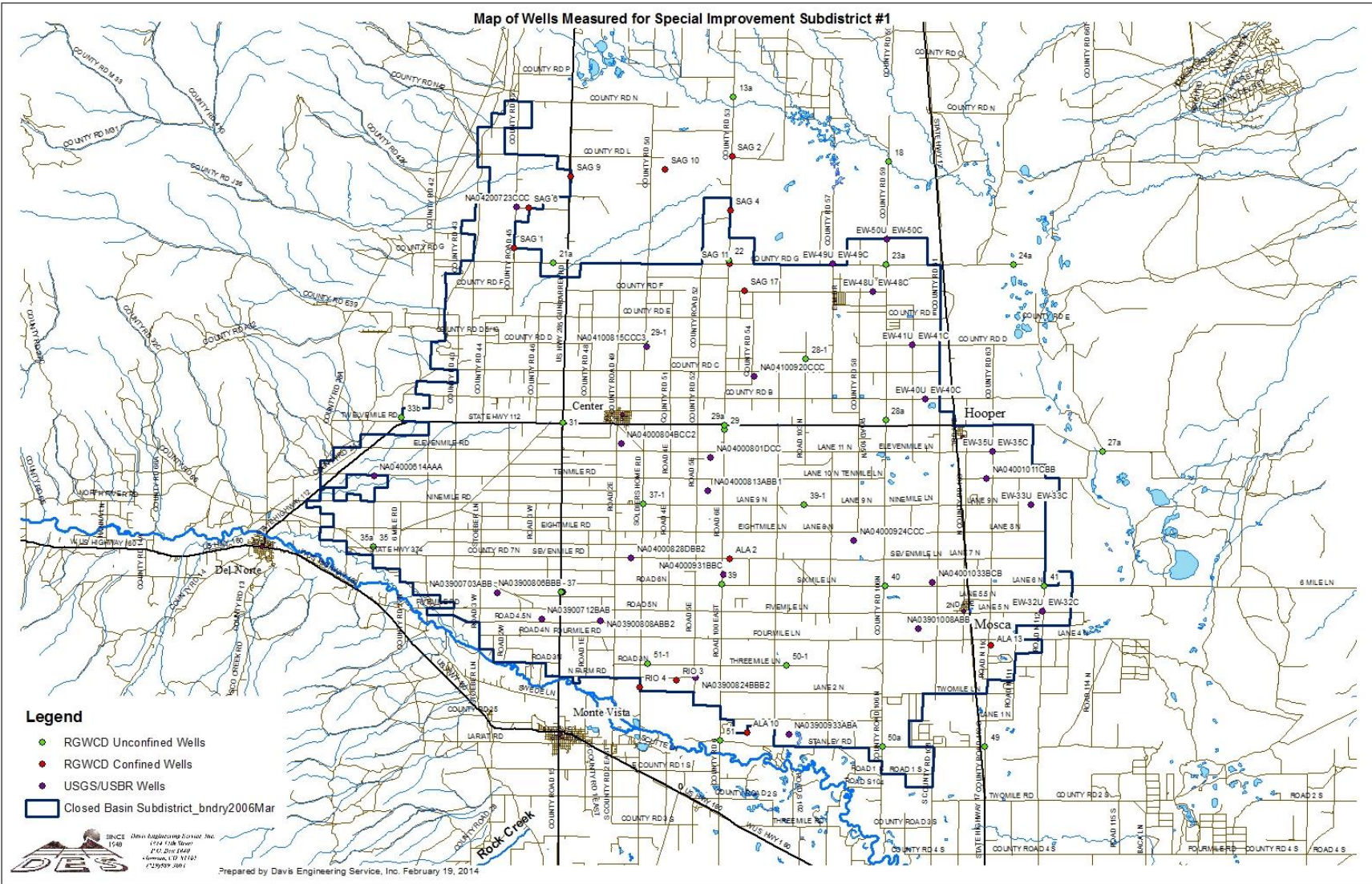
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
45.0	37.85032119 N	105.92892777 W	7550.93
Unconfined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	33.46	7517.47	USBR
2/15/2022	33.20	7517.73	USBR
3/15/2022	33.01	7517.92	USBR
4/15/2022	32.78	7518.15	USBR
5/15/2022	32.76	7518.17	USBR
6/15/2022	33.02	7517.91	USBR
-	No Measurement	No Measurement	-
<b>USGS 375100105554202, NA04200936AAA2</b>			
<b>EW-50C</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
123.0	37.85032119 N	105.92892777 W	7550.93
Confined Aquifer			
<b>Date</b>	<b>Depth to Water Below Ground (ft.)</b>	<b>Water Level Elevation (ft. NAVD88)</b>	<b>Data Source(s)</b>
1/15/2022	31.53	7519.4	USBR
2/15/2022	31.15	7519.78	USBR
3/15/2022	30.97	7519.96	USBR
4/15/2022	32.57	7518.36	USBR
5/15/2022	36.51	7514.42	USBR
6/15/2022	37.51	7513.42	USBR
-	No Measurement	No Measurement	-
<b>USGS 375155106105501, NA04200723CCC</b>			
<b>Well Depth (ft.)</b>	<b>Latitude (NAD83)</b>	<b>Longitude (NAD83)</b>	<b>Ground Elevation (ft. NAVD88)</b>
130.0	37.86658420 N	106.18291630 W	7645.61

Confined Aquifer

Date	Depth to Water Below Ground (ft.)	Water Level Elevation (ft. NAVD88)	Data Source(s)
1/25/2022	26.11	7619.50	USGS
-	No Measurement	No Measurement	-



Map of Wells Measured for Special Improvement Subdistrict #1



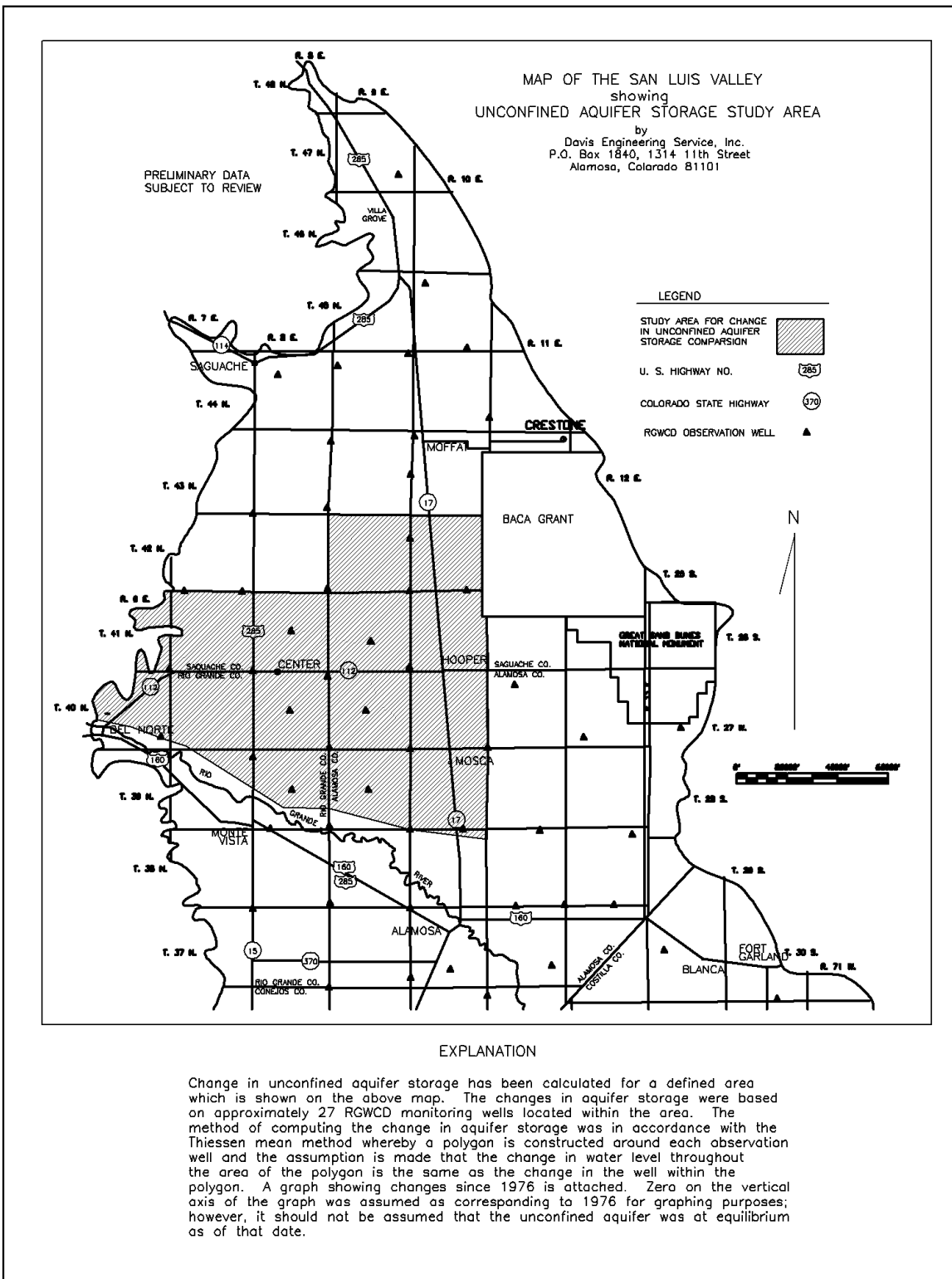
- Legend**
- RGWCD Unconfined Wells
  - RGWCD Confined Wells
  - USGS/USBR Wells
  - Closed Basin Subdistrict #1



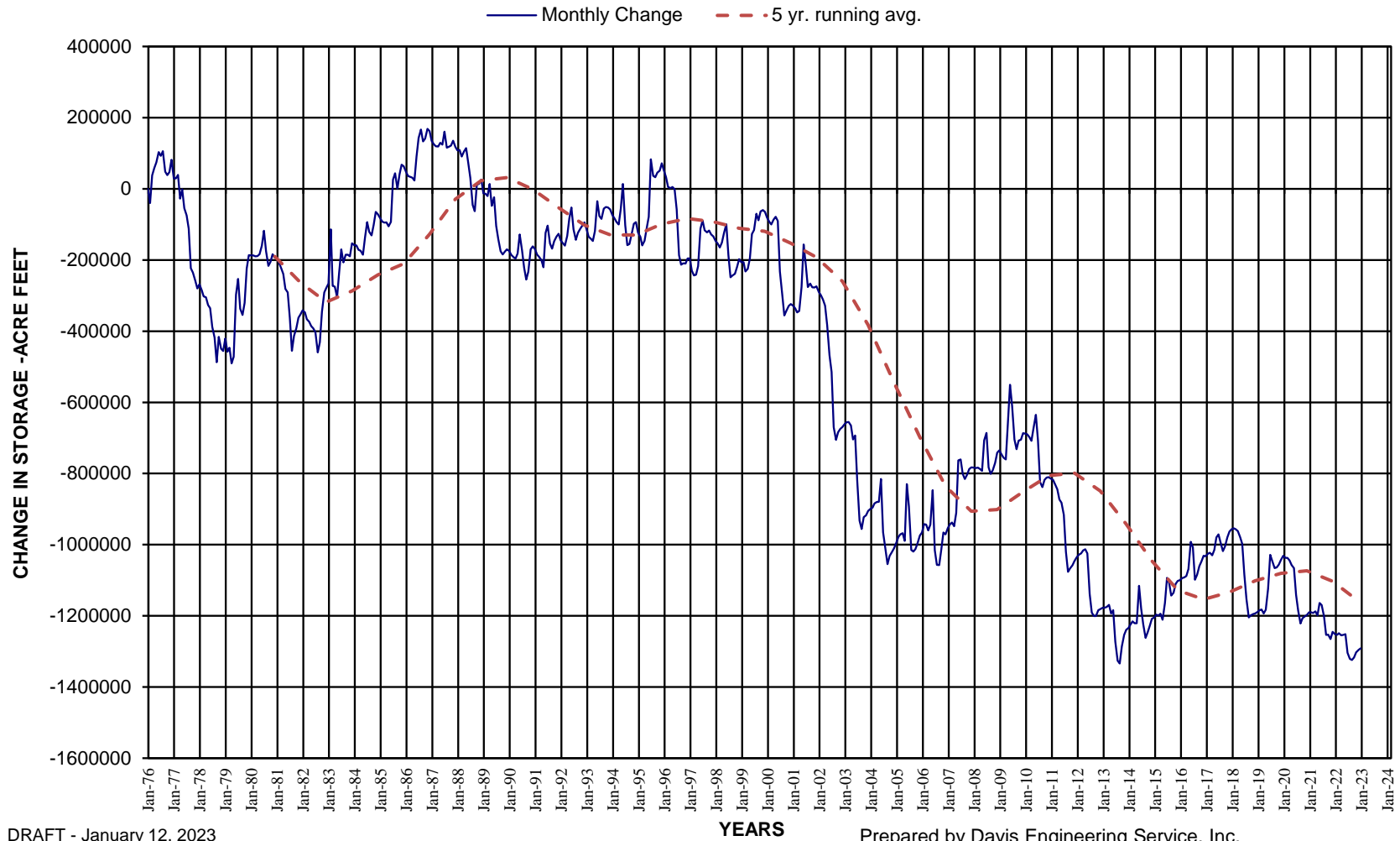
Prepared by Davis Engineering Service, Inc. February 19, 2014

# APPENDIX E

## MAP SHOWING STUDY AREA OF CHANGE IN UNCONFINED AQUIFER STORAGE STUDY AND SPREADSHEET CONTAINING CALCULATIONS



### CHANGE IN UNCONFINED AQUIFER STORAGE WEST CENTRAL SAN LUIS VALLEY



DRAFT - January 12, 2023  
Data through January 12, 2023

Prepared by Davis Engineering Service, Inc,  
For Rio Grande Water Conservation Dist.

CHANGE IN UNCONFINED AQUIFER STORAGE					
NORTH CENTRAL SAN LUIS VALLEY					
Prepared by	Davis Engineering Service, Inc.				
	1314 11th Street, P.O. Box 1840				
	Alamosa, CO 81101			Average	5 yr. Running
				Annual	Average
	Monthly	Accumulated		Accumulated	Accumulated
	Change in	Change in		Change in	Change in
	Storage	Storage		Storage	Storage
Date	(acre-feet)	(acre-feet)	Date	(acre-feet)	(acre-feet)
01/01/76	0	0			
02/01/76	-39999.276	-39999.276			
03/01/76	77786.084	37786.808			
04/01/76	20613.124	58399.932			
05/01/76	16171.628	74571.56			
06/01/76	29018.556	103590.116			
07/01/76	-10429.246	93160.87			
08/01/76	12474.802	105635.672			
09/01/76	-57446.136	48189.536			
10/01/76	-9835.47	38354.066			
11/01/76	8742.436	47096.502			
12/01/76	34926.408	82022.91	12/1/1976	54067.39133	
01/01/77	-52330.194	29692.716			
02/01/77	0	29692.716			
03/01/77	9337.002	39029.718			
04/01/77	-66606.56	-27576.842			
05/01/77	26280.85	-1295.992			
06/01/77	-52715.472	-54011.464			
07/01/77	-20396.064	-74407.528			
08/01/77	-37527.502	-111935.03			
09/01/77	-111073.584	-223008.614			
10/01/77	-12109.48	-235118.094			
11/01/77	-22296.448	-257414.542			
12/01/77	-22198.364	-279612.906	12/1/1977	-97163.8218	
01/01/78	11784.074	-267828.832			
02/01/78	-17151.566	-284980.398			
03/01/78	-17203.476	-302183.874			
04/01/78	-2323.652	-304507.526			
05/01/78	-21920.32	-326427.846			
06/01/78	-9347.856	-335775.702			
07/01/78	-52068.002	-387843.704			
08/01/78	-29730.556	-417574.26			
09/01/78	-69355.032	-486929.292			

10/01/78	70963.206	-415966.086			
11/01/78	-32996.292	-448962.378			
12/01/78	-6739.94	-455702.318	12/1/1978	-369556.851	
01/01/79	35070.348	-420631.97			
02/01/79	-37063.722	-457695.692			
03/01/79	10822.172	-446873.52			
04/01/79	-43430.268	-490303.788			
05/01/79	18146.524	-472157.264			
06/01/79	174935.972	-297221.292			
07/01/79	43871.13	-253350.162			
08/01/79	-83674.482	-337024.644			
09/01/79	-17664.49	-354689.134			
10/01/79	34505.808	-320183.326			
11/01/79	96283.002	-223900.324			
12/01/79	37433.586	-186466.738	12/1/1979	-355041.488	
01/01/80	-575.412	-187042.15			
02/01/80	223.534	-186818.616			
03/01/80	-2898.886	-189717.502			
04/01/80	500.468	-189217.034			
05/01/80	5219.844	-183997.19			
06/01/80	24746.942	-159250.248			
07/01/80	41387.2912	-117862.9568			
08/01/80	-57314.9712	-175177.928			
09/01/80	-41247.856	-216425.784			
10/01/80	10814.362	-205611.422			
11/01/80	22176.9	-183434.522			
12/01/80	-9707.036	-193141.558	12/1/1980	-182308.076	<b>-190000.5691</b>
01/01/81	-2551.75	-195693.308			
02/01/81	-12852.3636	-208545.6716			
03/01/81	-14131.3414	-222677.013			
04/01/81	-16957.0412	-239634.0542			
05/01/81	-41321.2528	-280955.307			
06/01/81	-10075.1948	-291030.5018			
07/01/81	-70986.6462	-362017.148			
08/01/81	-93244.0742	-455261.2222			
09/01/81	42034.1898	-413227.0324			
10/01/81	21399.2794	-391827.753			
11/01/81	29714.8742	-362112.8788			
12/01/81	9381.9758	-352730.903	12/1/1981	-314642.733	<b>-263742.5939</b>
01/01/82	11596.5528	-341134.3502			
02/01/82	-6270.5826	-347404.9328			
03/01/82	-18782.3754	-366187.3082			
04/01/82	-7223.7122	-373411.0204			
05/01/82	-12098.576	-385509.5964			
06/01/82	-6693.1658	-392202.7622			
07/01/82	-11260.6382	-403463.4004			
08/01/82	-56503.756	-459967.1564			
09/01/82	29193.3214	-430773.835			

10/01/82	85571.507	-345202.328			
11/01/82	54127.7694	-291074.5586			
12/01/82	13473.4728	-277601.0858	12/1/1982	-367827.695	<b>-317875.3685</b>
01/01/83	11189.4914	-266411.5944			
02/01/83	152789.8994	-113621.695			
03/01/83	-159364.2458	-272985.9408			
04/01/83	-1815.2226	-274801.1634			
05/01/83	-29561.487	-304362.6504			
06/01/83	70115.379	-234247.2714			
07/01/83	64151.3692	-170095.9022			
08/01/83	-36400.3188	-206496.221			
09/01/83	21234.1914	-185262.0296			
10/01/83	0	-185262.0296			
11/01/83	-4453.1698	-189715.1994			
12/01/83	36601.4186	-153113.7808	12/1/1983	-213031.29	<b>-286570.2562</b>
01/01/84	-5369.9696	-158483.7504			
02/01/84	-369.951	-158853.7014			
03/01/84	-12302.0086	-171155.71			
04/01/84	-2611.7136	-173767.4236			
05/01/84	-11031.7238	-184799.1474			
06/01/84	49105.5172	-135693.6302			
07/01/84	42206.6224	-93487.0078			
08/01/84	-27414.5048	-120901.5126			
09/01/84	-9755.0126	-130656.5252			
10/01/84	29418.7476	-101237.7776			
11/01/84	36818.786	-64418.9916			
12/01/84	-7175.6882	-71594.6798	12/1/1984	-130420.821	<b>-241646.1229</b>
01/01/85	-10624.8872	-82219.567			
02/01/85	-9851.8862	-92071.4532			
03/01/85	-2437.3676	-94508.8208			
04/01/85	280.3466	-94228.4742			
05/01/85	-11029.5056	-105257.9798			
06/01/85	12321.721	-92936.2588			
07/01/85	119359.7488	26423.49			
08/01/85	17447.3884	43870.8784			
09/01/85	-43171.1248	699.7536			
10/01/85	40156.7842	40856.5378			
11/01/85	27226.9452	68083.483			
12/01/85	-4950.523	63132.96	12/1/1985	-26512.9543	<b>-210487.0986</b>
01/01/86	-15153.6006	47979.3594			
02/01/86	-11942.747	36036.6124			
03/01/86	-2051.9134	33984.699			
04/01/86	-2624.1968	31360.5022			
05/01/86	-7548.0792	23812.423			
06/01/86	66779.638	90592.061			
07/01/86	52570.07	143162.131			
08/01/86	23341.4238	166503.5548			
09/01/86	-33322.804	133180.7508			

10/01/86	8405.2792	141586.03			
11/01/86	27434.1912	169020.2212			
12/01/86	-7089.3554	161930.8658	12/1/1986	98262.43422	<b>-127906.0652</b>
01/01/87	-27121.0626	134809.8032			
02/01/87	-10165.2164	124644.5868			
03/01/87	-5223.8476	119420.7392			
04/01/87	-98.3976	119322.3416			
05/01/87	9934.6574	129256.999			
06/01/87	-5171.0554	124085.9436			
07/01/87	36811.5546	160897.4982			
08/01/87	-44875.6178	116021.8804			
09/01/87	2340.9648	118362.8452			
10/01/87	3234.668	121597.5132			
11/01/87	13937.8514	135535.3646			
12/01/87	-17861.8646	117673.5	12/1/1987	126802.4179	<b>-28980.04268</b>
01/01/88	-9444.3734	108229.1266			
02/01/88	811.9922	109041.1188			
03/01/88	-18020.8332	91020.2856			
04/01/88	14247.6012	105267.8868			
05/01/88	8912.6214	114180.5082			
06/01/88	-41190.7994	72989.7088			
07/01/88	-42296.4168	30693.292			
08/01/88	-75904.7774	-45211.4854			
09/01/88	-17545.5566	-62757.042			
10/01/88	74913.5368	12156.4948			
11/01/88	1595.7166	13752.2114			
12/01/88	12663.2976	26415.509	12/1/1988	47981.46788	<b>23222.50886</b>
01/01/89	-38987.194	-12571.685			
02/01/89	-1264.3662	-13836.0512			
03/01/89	-6286.0334	-20122.0846			
04/01/89	33810.413	13688.3284			
05/01/89	-61568.7938	-47880.4654			
06/01/89	24345.9854	-23534.48			
07/01/89	-80374.3064	-103908.7864			
08/01/89	-37634.819	-141543.6054			
09/01/89	-33471.0904	-175014.6958			
10/01/89	-9469.8628	-184484.5586			
11/01/89	7617.3684	-176867.1902			
12/01/89	6750.7176	-170116.4726	12/1/1989	-88015.9789	<b>31703.47737</b>
01/01/90	-4769.87	-174886.35			
02/01/90	-11080	-185966.35			
03/01/90	-5701.32	-191667.67			
04/01/90	-4746.08	-196413.75			
05/01/90	14838.86	-181574.89			
06/01/90	53480.26	-128094.63			
07/01/90	-44236.24	-172330.87			
08/01/90	-49242.37	-221573.24			
09/01/90	-33657.47	-255230.71			

10/01/90	22679.83	-232550.88			
11/01/90	62469.44	-170081.44			
12/01/90	8670.56	-161410.88	12/1/1990	-189315.138	<b>-856.9594433</b>
01/01/91	-7187	-168597.88			
02/01/91	-16638.12	-185236			
03/01/91	-5712.6	-190948.6			
04/01/91	-9456.04	-200404.64			
05/01/91	-20260.63	-220665.27			
06/01/91	97178.29	-123486.98			
07/01/91	20452.27	-103034.71			
08/01/91	-50677.53	-153712.24			
09/01/91	-14390.24	-168102.48			
10/01/91	21195.55	-146906.93			
11/01/91	12608.01	-134298.92			
12/01/91	8065.05	-126233.87	12/1/1991	-160135.71	<b>-52536.58829</b>
01/01/92	-18958.18	-145192.05			
02/01/92	-6871.78	-152063.83			
03/01/92	-7334.49	-159398.32			
04/01/92	27358.73	-132039.59			
05/01/92	49172.2	-82867.39			
06/01/92	30517.09	-52350.3			
07/01/92	-61377.25	-113727.55			
08/01/92	-29466.45	-143194			
09/01/92	19766.04	-123427.96			
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11/01/92	9475.81	-103948.64			
12/01/92	9751.99	-94196.65	12/1/1992	-117985.894	<b>-101494.2507</b>
01/01/93	-19574.34	-113770.99			
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03/01/93	-4958.11	-139798.46			
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05/01/93	28342.13	-118218.24			
06/01/93	83820.2	-34398.04			
07/01/93	-42143.1	-76541.14			
08/01/93	-7948.79	-84489.93			
09/01/93	28649.96	-55839.97			
10/01/93	4621.62	-51218.35			
11/01/93	-786.61	-52004.96			
12/01/93	-5395.89	-57400.85	12/1/1993	-88756.8042	<b>-128841.9051</b>
01/01/94	-16280.11	-73680.96			
02/01/94	-9245.65	-82926.61			
03/01/94	-10306.99	-93233.6			
04/01/94	-6851.58	-100085.18			
05/01/94	44328.15	-55757.03			
06/01/94	69404.28	13647.25			
07/01/94	-115759.18	-102111.93			
08/01/94	-55936.87	-158048.8			
09/01/94	3253.08	-154795.72			



10/01/94	25885.18	-128910.54			
11/01/94	30897.35	-98013.19			
12/01/94	4505.4	-93507.79	12/1/1994	-93952.0083	<b>-130029.111</b>
01/01/95	-29720.78	-123228.57			
02/01/95	-11320.5	-134549.07			
03/01/95	-24423.97	-158973.04			
04/01/95	13184.86	-145788.18			
05/01/95	34898.08	-110890.1			
06/01/95	32269.65	-78620.45			
07/01/95	161897.9	83277.45			
08/01/95	-46810.54	36466.91			
09/01/95	-3481.65	32985.26			
10/01/95	12647.94	45633.2			
11/01/95	5685.03	51318.23			
12/01/95	20406.99	71725.22	12/1/1995	-35886.9283	<b>-99343.469</b>
01/01/96	-20051.32	51673.9			
02/01/96	-18249.53	33424.37			
03/01/96	-28209.41	5214.96			
04/01/96	-2949.55	2265.41			
05/01/96	3020.85	5286.26			
06/01/96	-6476.75	-1190.49			
07/01/96	-57268.63	-58459.12			
08/01/96	-127973.05	-186432.17			
09/01/96	-26482.01	-212914.18			
10/01/96	3455.85	-209458.33			
11/01/96	-579.31	-210037.64			
12/01/96	14768.79	-195268.85	12/1/1996	-81324.6567	<b>-83581.25833</b>
01/01/97	-147.97	-195416.82			
02/01/97	-34509.72	-229926.54			
03/01/97	-13474.98	-243401.52			
04/01/97	1774.84	-241626.68			
05/01/97	24709.73	-216916.95			
06/01/97	104870.69	-112046.26			
07/01/97	22868.74	-89177.52			
08/01/97	-27035.48	-116213.00			
09/01/97	-5759.13	-121972.13			
10/01/97	4871.71	-117100.42			
11/01/97	-11389.64	-128490.06			
12/01/97	-4793.1	-133283.16	12/1/1997	-162130.92	<b>-92410.26383</b>
01/01/98	-13292.16	-146575.32			
02/01/98	-7244.28	-153819.60			
03/01/98	-11003.25	-164822.85			
04/01/98	13832.73	-150990.12			
05/01/98	26835.28	-124154.84			
06/01/98	24525.66	-99629.18			
07/01/98	-86544.46	-186173.64			
08/01/98	-62424.97	-248598.61			
09/01/98	5139.82	-243458.79			

10/01/98	4962.4	-238496.39			
11/01/98	19064.48	-219431.91			
12/01/98	21806.96	-197624.95	12/1/1998	-181148.02	<b>-110888.5063</b>
01/01/99	-8158.3	-205783.25			
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03/01/99	-26177.01	-231960.26			
04/01/99	7078.76	-224881.50			
05/01/99	28649.22	-196232.28			
06/01/99	69444.49	-126787.79			
07/01/99	10866.6	-115921.19			
8/1/1999	45937.93	-69983.26			
9/1/1999	-18256.4	-88239.66			
10/1/1999	25072.23	-63167.43			
11/1/1999	3395.63	-59771.80			
12/1/1999	-5179.25	-64951.05	12/1/1999	-137788.56	<b>-119655.8167</b>
01/01/00	-16163.94	-81114.99			
2/1/2000	-11572.38	-92687.37			
3/1/2000	-7314.25	-100001.62			
4/1/2000	13776.14	-86225.48			
5/1/2000	7463.87	-78761.61			
6/1/2000	-11438.35	-90199.96			
7/1/2000	-142168.15	-232368.11			
8/1/2000	-64010.24	-296378.35			
9/1/2000	-59406.32	-355784.67			
10/1/2000	12841.23	-342943.44			
11/1/2000	13716.71	-329226.73			
12/1/2000	5660.88	-323565.85	12/1/2000	-200771.52	<b>-152632.734</b>
1/1/2001	-5034.97	-328600.82			
2/1/2001	-7741.4	-336342.22			
3/1/2001	-10619.63	-346961.85			
4/1/2001	3395.31	-343566.54			
5/1/2001	67893.3	-275673.24			
6/1/2001	119504.33	-156168.91			
7/1/2001	-56351.66	-212520.57			
8/1/2001	-63531.87	-276052.44			
9/1/2001	10225.82	-265826.62			
10/1/2001	-11044.03	-276870.65			
11/1/2001	-471.66	-277342.31			
12/1/2001	3387.38	-273954.93	12/1/2001	-280823.43	<b>-192532.49</b>
1/1/2002	-16009.8	-289964.73			
2/1/2002	-8579.35	-298544.08			
3/1/2002	-12802.62	-311346.70			
4/1/2002	-17061.78	-328408.48			
5/1/2002	-54731.22	-383139.70			
6/1/2002	-84223.33	-467363.03			
7/1/2002	-47044.08	-514407.11			
8/1/2002	-155068.98	-669476.09			
9/1/2002	-36166.69	-705642.78			

10/1/2002	21834.27	-683808.51			
11/1/2002	8697.05	-675111.46			
12/1/2002	5228.62	-669882.84	12/1/2002	-499757.96	<b>-260057.90</b>
1/1/2003	8816.68	-661066.16			
2/1/2003	5225	-655841.16			
3/1/2003	776.4	-655064.76			
4/1/2003	-9792.03	-664856.79			
5/1/2003	-39448.05	-704304.84			
6/1/2003	10795.54	-693509.30			
7/1/2003	-126538.8	-820048.10			
8/1/2003	-112758.52	-932806.62			
9/1/2003	-23049.89	-955856.51			
10/1/2003	33312.09	-922544.42			
11/1/2003	4901.83	-917642.59			
12/1/2003	12414.57	-905228.02	12/1/2003	-790730.77	<b>-381974.45</b>
1/1/2004	5298.8	-899929.22			
2/1/2004	4101.36	-895827.86			
3/1/2004	11666.14	-884161.72			
4/1/2004	4071.05	-880090.67			
5/1/2004	851.89	-879238.78			
6/1/2004	64077.86	-815160.92			
7/1/2004	-150007.92	-965168.84			
8/1/2004	-46423.75	-1011592.59			
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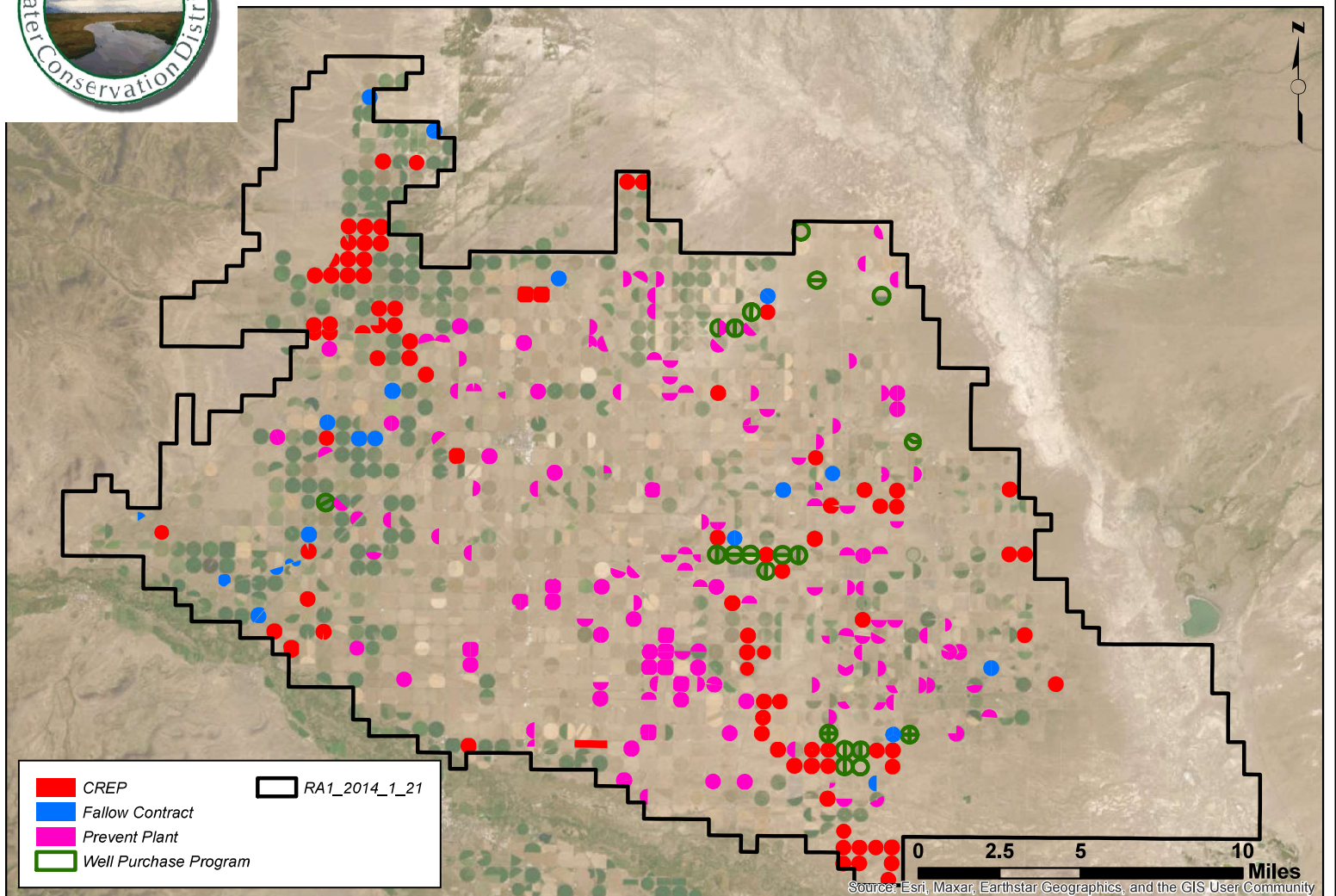
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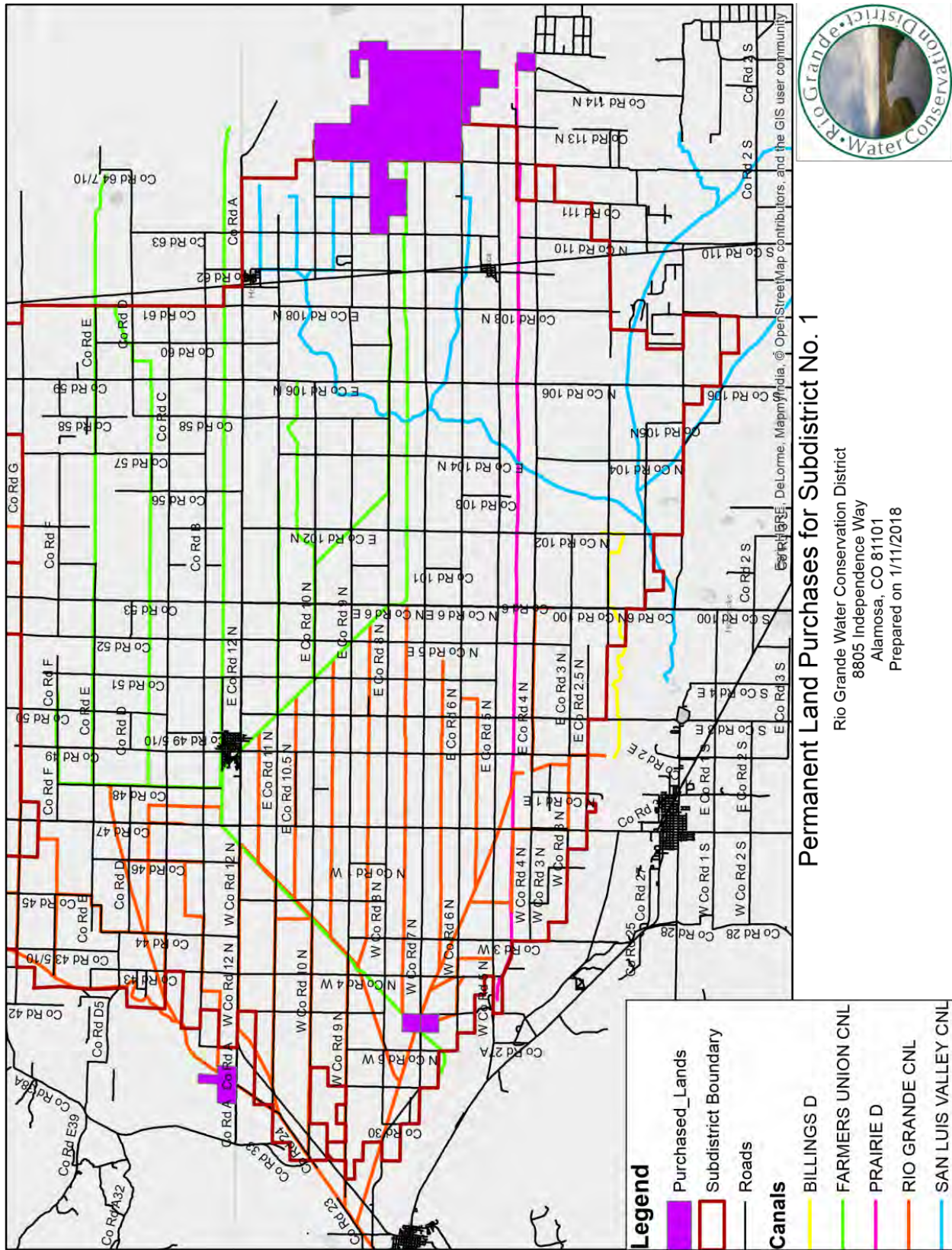




## APPENDIX F Subdistrict 1 Conservation Programs 2022



# APPENDIX G



## APPENDIX H

### RIO GRANDE COMPACT TEN DAY REPORT

PRELIMINARY DATA

DATE: January 4, 2023

Period Ending: December 31, 2022

#### RIO GRANDE

**CBP Allocation: 60%**

(Units in Thousands of Acre-Feet)

Projected Annual Index: 445,000  
(Includes Reservoir Releases)

Obligation: 110,600

% of Index: 25%

MONTH	RIO GRANDE INDEX SUPPLY		ADJUSTED DELIVERIES	
	Recorded Flow near Del Norte	Accumulated Total	Rio Grande Lobatos less Conejos-La Sauses *	Accumulated Total
JAN	8.6	8.6	9.4	9.4
FEB	7.1	15.7	8.4	17.8
MAR	14.1	29.8	15.3	33.1
APR	63.2	93.0	6.8	39.9
MAY	145.7	238.7	13.8	53.7
JUN	43.0	281.7	5.8	59.5
JUL	37.6	319.3	3.2	62.7
AUG	47.8	367.1	8.3	71.0
SEP	21.9	389.0	4.5	75.5
OCT	26.5	415.5	6.1	81.6
NOV	16.3	431.8	11.5	93.1
DEC	11.4	443.2	12.7	105.8
Annual Credit				
APR-SEP	359.2			
TOTAL	443.2		105.8	

\* Deliveries Include: Adjusted Closed Basin Project Production

4,870 Acre-Feet.

Delivery Target	(% of Index)	Estimated Curtailment of Ditches	(% of Index)
Jan. 1 - March 31	100%	Jan. 1 - March 31	100%
April 1 - May 5	12%	April 1 - May 5	12%
May 6 - June 2	10%	May 6 - June 2	10%
June 3 - August 2	7%	June 3 - August 2	7%
August 3 - 24	13%	August 3 - 24	13%
August 25 - September 7	16%	August 25 - September 7	16%
September 8 - October 5	15%	September 8 - October 5	15%
October 6 - November 1	14%	October 6 - November 1	14%
November 2 - 10	recharge	November 2 - 10	recharge
November 11 - December 31	100%	November 11 - December 31	100%

Respectfully submitted,



Craig W. Cotten, Division Engineer, Division III

# RIO GRANDE COMPACT TEN DAY REPORT

PRELIMINARY DATA

DATE: January 4, 2023

Period Ending: December 31, 2022

## CONEJOS RIVER

**CBP Allocation: 40%**

(Units in Thousands of Acre-Feet)

Projected Annual Index: 270,000

Obligation: 88,600

% of Index: 33%

CONEJOS INDEX SUPPLY								ADJUSTED DELIVERIES	
MONTH	MEASURED FLOW			PLATORO SUPPLY		Supply in Month	Accum. Total	Conejos River at Mouths near La Sauses*	Accum. Total
	Conejos at Mogote	Los Pinos near Ortiz	San Antonio at Ortiz	Storage End of Month	Change in Storage				
JAN	2.7	-----	-----	14.2	-0.2	2.5	2.5	3.0	3.0
FEB	2.4	-----	-----	14.2	0.0	2.4	4.9	3.0	6.0
MAR	5.7	-----	-----	14.3	0.1	5.8	10.7	5.8	11.8
APR	24.2	18.6	5.0	14.5	0.2	48.0	58.7	10.1	21.9
MAY	68.3	24.0	1.6	26.1	11.6	105.5	164.2	21.0	42.9
JUN	26.5	3.1	0.2	22.1	-4.0	25.8	190.0	3.5	46.4
JUL	19.0	3.6	0.8	21.1	-1.0	22.4	212.4	5.2	51.6
AUG	18.8	5.0	2.0	19.9	-1.2	24.6	237.0	8.6	60.2
SEP	10.1	1.7	0.3	17.0	-2.9	9.2	246.2	5.0	65.2
OCT	10.7	1.9	0.3	15.7	-1.3	11.6	257.8	5.8	71.0
NOV	5.9	-----	-----	14.5	-1.2	4.7	262.5	6.9	77.9
DEC	4.0	-----	-----	13.9	-0.6	3.4	265.9	5.6	83.5
Annual Credit									
APR-SEP	166.9	56.0	9.9		2.7	235.5			
TOTAL	198.3	57.9	10.2			265.9		83.5	

\* Deliveries Include: Adjusted Closed Basin Project Production

3,247 Acre-Feet.

Delivery Target	(% of Index)	Estimated Curtailment of Ditches	(% of Index)
Jan. 1 - March 31	100%	Jan. 1 - March 31	100%
April 1 - May 5	20%	April 1 - May 5	20%
May 6 - June 2	16%	May 6 - June 2	16%
June 3 - July 8	7%	June 3 - July 8	7%
July 9 - August 2	15%	July 9 - August 2	15%
August 3 - 24	26%	August 3 - 24	26%
August 25 - September 7	50%	August 25 - September 7	50%
September 8 - November 1	46%	September 8 - November 1	46%
November 2 - December 31	100%	November 2 - December 31	100%

# APPENDIX I

## Augmentation Wells and Map

Augmentation Plan Wells that are Part of a farm Unit								
Case No.	Plan Type	Decreed Owner	Current Owner	WDID	Governed*			
00CW0019	Augmentation Plan	Ensz	Roger Ensz	2005728	Y			
				2005729	A			
				2011878	Y			
00CW0042	Augmentation Plan	J Cooley	James Cooley	2008692	Y			
				2014243	Y			
01CW0006	Augmentation Plan	K Cooley	Kim Cooley	2014013	Y			
				2014014	Y			
				2014016	Y			
07CW0064	Augmentation Plan	JDS Farms/Entz	JDS Farms & Allen Entz	2009165	NP			
				2009403	NP			
				2009405	NP			
81CW0069	Change of Water Right	Beard	John Slane	2705546	Y			
				2705547	Y			
81CW0072	Change of Water Right	Slane	Rob Jones	2006662	Y			
				2014257	Y			
82CW0017	Augmentation Plan	SRS Ranch	Gene Ensz	2008188	Y			
				2008189	Y			
				2008190	Y			
				2008191	Y			
				2008192	Y			
					Laverne Schmidt	2008188	Y	
						2008189	Y	
						2008190	Y	
						2008191	Y	
						2008192	Y	
						Susie Nickel	2008188	Y
							2008189	Y
							2008190	Y
			2008191	Y				
			2008192	Y				
89CW0045	Augmentation Plan	MV Pro Credit Assoc	Scidmore	2006555	A			
				2006633	Y			
96CW0005	Augmentation Plan	Kirkpatrick	Kirkpatrick	2008240	A			
				2008241	A			
				2013719	Y			
				2013720	Y			
				2013721	Y			
			2013722	Y				
99CW0009	Augmentation Plan	Off Ranches	Cory Off	2009876	Y			
				2013756	Y			
99CW0025	Augmentation Plan	Bradley	Jim Bradley	2010235	Y			
				2013884	Y			
W-3847	Alt. Point of Diversion	Seger	Gary Seger	2005398	Y			
				2005399	Y			
*Footnotes:	Y	Yes, well is governed by Plan						
	NP	Wells are not participating in Plan						
	A	Wells are associated with other wells that are governed by Plan						

# APPENDIX I

## Augmentation Wells and Map

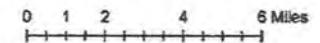
Augmentation Plan Wells that are Part of a farm Unit						
Case No.	Plan Type	Decreed Owner	Current Owner	WDID	Governed*	
00CW0019	Augmentation Plan	Ensz	Roger Enszt	2005728	Y	
				2005729	A	
				2011878	Y	
00CW0042	Augmentation Plan	J Cooley	James Cooley	2008692	Y	
				2014243	Y	
01CW0006	Augmentation Plan	K Cooley	Kim Cooley	2014013	Y	
				2014014	Y	
				2014016	Y	
07CW0064	Augmentation Plan	JDS Farms/Entz	JDS Farms & Allen Entz	2009165	NP	
				2009403	NP	
				2009405	NP	
81CW0069	Change of Water Right	Beard	John Slane	2705546	Y	
				2705547	Y	
81CW0072	Change of Water Right	Slane	Rob Jones	2006662	Y	
				2014257	Y	
82CW0017	Augmentation Plan	SRS Ranch	Gene Enszt	2008188	Y	
				2008189	Y	
				2008190	Y	
				2008191	Y	
				2008192	Y	
				2008188	Y	
			Laverne Schmidt	2008189	Y	
				2008190	Y	
				2008191	Y	
				2008192	Y	
				Susie Nickel	2008188	Y
					2008189	Y
2008190	Y					
89CW0045	Augmentation Plan	MV Pro Credit Assoc	Scidmore	2006555	A	
				2006633	Y	
96CW0005	Augmentation Plan	Kirkpatrick	Kirkpatrick	2008240	A	
				2008241	A	
				2013719	Y	
				2013720	Y	
				2013721	Y	
99CW0009	Augmentation Plan	Off Ranches	Cory Off	2013722	Y	
				2009876	Y	
				2013756	Y	
				2010235	Y	
99CW0025	Augmentation Plan	Bradley	Jim Bradley	2013884	Y	
				2005398	Y	
W-3847	Alt. Point of Diversion	Seget	Gary Seget	2005399	Y	
				2005399	Y	
*Footnotes:	Y	Yes, well is governed by Plan				
	NP	Wells are not participating in Plan				
	A	Wells are associated with other wells that are governed by Plan				

## SPECIAL SUBDISTRICT NO. 1

### Wells Associated with Augmentation & Other Plans

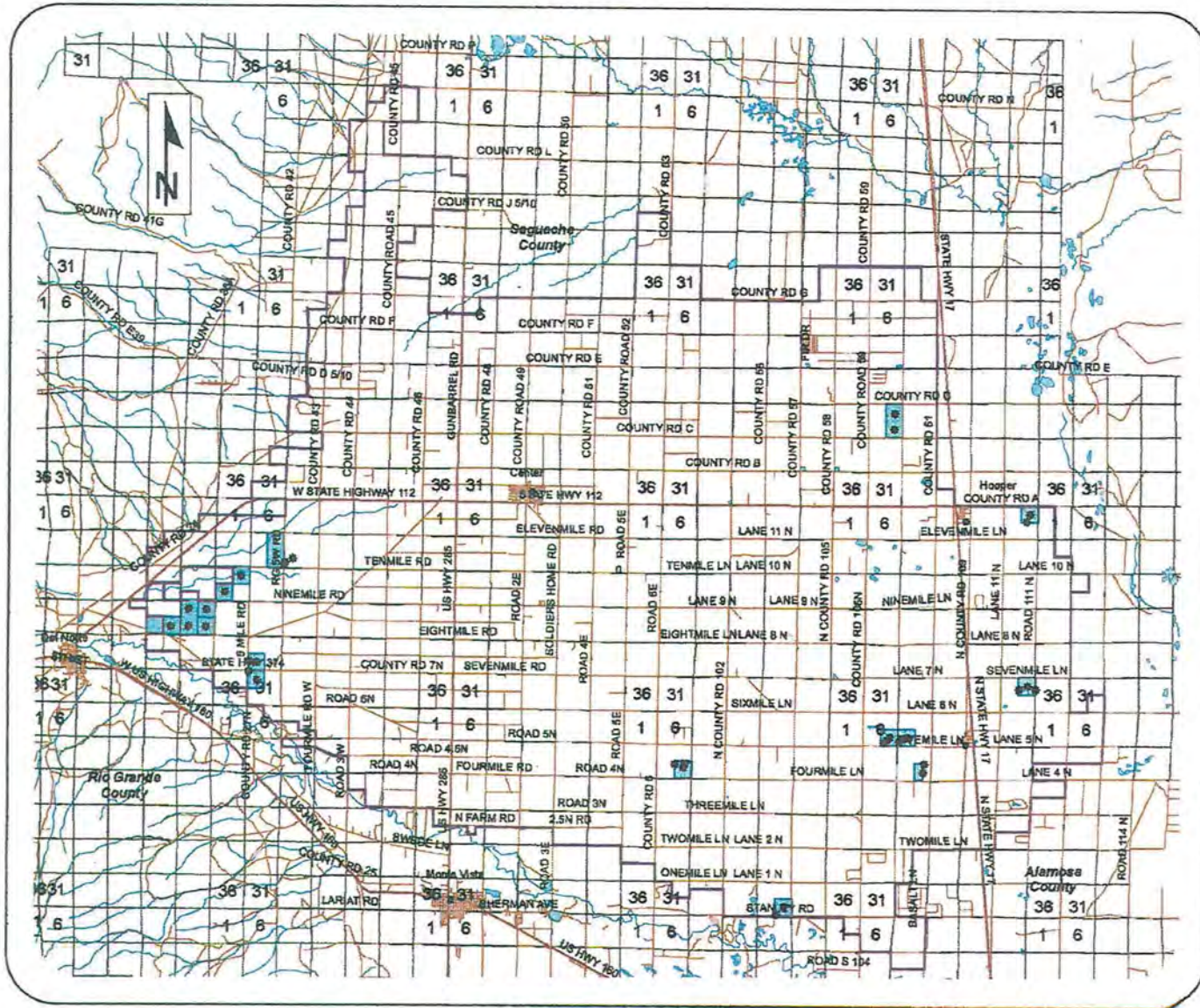
#### Legend

- Div3\_Wells\_Aug Plans
- Subdistrict\_1\_bndry2006Mar
- Decreed Aug Plans
- 00CW0019 Roger Ensz
- 00CW0042 James Cooley
- 01CW0006 Kim Cooley
- 07CW0064 JDS Farms & Allen Entz
- 81CW0069 John Slane
- 81CW0072 Rob Jones
- 82CW0017 Gene Ensz
- 82CW0017 Laverne Schmidt
- 82CW0017 Susie Nickel
- 89CW0045 Scidmore
- 96CW0005 Kirkpatrick
- 99CW0009 Cory Off
- 99CW0025 Jim Bradley
- W-3847 Gary Seger



Prepared 1/15/2013

SINCE 1946 Davis Engineering Service, Inc.  
1314 12th Street  
P.O. Box 1848  
Lansons, CO 81101  
(719)589-3004



# APPENDIX J

January 14, 2021

Pamela Rice, Superintendent  
United States Department of the Interior  
Great Sand Dunes National Park and Preserve  
11500 State Hwy 150  
Mosca, CO 81146

**Subject: Proposed Sustainability Metric for Future Groundwater Withdrawals by Great Sand Dunes National Park and Preserve**

Dear Ms. Rice,

The Great Sand Dunes National Park Service (“NPS”) submitted a proposed Sustainability Metric to satisfy their obligations under their contract allowing participation in the Subdistrict No 1 2020 ARP. The proposal is to limit the pumping from the NPS wells to a total of 54.02 acre-feet from October 1, 2020 through September 30, 2025. This amounts to an average of 10.80 acre-feet/year over the five-year period.

DWR staff had several discussions with NPS representatives, Peter Fahmy and Tyler Gilkerson, as they were developing the metric. Their approach involved examining historical groundwater withdrawal records and establishing a current pumping limit that would not exceed historical withdrawals.

NPS found that available, reliable, historical pumping records are limited for years prior to 2000. They concluded in order to develop a Sustainability Metric by comparing historical and recent pumping records, NPS is limited to the available annual pumping records for 1992 through 1994 and 2000 through 2019. The average groundwater pumping for the 1992 through 1994 period is 15.3 gallons per visitor to the park. Using this data and other sources of information, an estimate of 10.804 acre-feet per year as an average amount of pumping for the entire pre-2000 time period was arrived at. If this average annual pumping is maintained for 5 years, it would total 54.02 acre-feet. This proposed Sustainability Metric is considered to be reasonable given the limited amount of historical data that is available.

NPS is in the process of obtaining a decreed Plan for Augmentation per DWR’s Groundwater Use Rule 6.1.2 which must include NPS’s detailed Sustainability Metric. This metric is considered acceptable for the five-year term described with the condition the metric must be reviewed for incorporation into the Plan for Augmentation when it is brought to court. The metric will be reevaluated at that time or at the end of the five-year period.

The proposed sustainability metric for the Great Sand Dunes National Park of 54.02 acre-feet of total pumping for the period of October 1, 2020 through September 30, 2025 is hereby approved. Be advised that this approval will expire on September 30, 2025 or on the date that



the pumping amount reaches 54.02 acre-feet, whichever comes first. A new sustainability metric must be developed and in place at the time that this approval expires in order for the Park wells to continue to operate after that time.

Sincerely,

A handwritten signature in black ink that reads "Kevin G. Rein". The signature is written in a cursive, flowing style.

Kevin G. Rein, P.E. State Engineer, Director  
Colorado Division of Water Resources

ec: Division 3

## Great Sand Dunes National Park & Preserve (GSDNPP)

### Pumping for 2022 and Schedule of Depletions

This information was compiled on February 27, 2023, to assist with the compilation of the Annual Report for Subdistrict No. 1. The measured groundwater use for 2022 is included below (Table 1). The Consumptive Use percentage is 10% of total pumping.

**Table 1**  
**National Park Service Estimated Net Groundwater Consumptive Use**  
 (Units in acre-feet)

Year	National Park Service Total					Recharge that Offsets Groundwater					Net Groundwater Consumptive Use
	Irrigation Pumping to Center Pivots	Irrigation Pumping to Flood Irrigation	Other Pumping	Other Consumptive Use Ratio	Groundwater Consumption	Recharge Source 1	Recharge Source 2	Recharge Source 3	Recharge Source 4	Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
2011			9.95	10%	1.00					0	1.00
2012			10.48	10%	1.05					0	1.05
2013			9.74	10%	0.97					0	0.97
2014			10.50	10%	1.05					0	1.05
2015			10.79	10%	1.08					0	1.08
2016			16.36	10%	1.64					0	1.64
2017			7.28	10%	0.73					0	0.73
2018			5.60	10%	0.56					0	0.56
2019			7.75	10%	0.78					0	0.78
2020			11.62	10%	1.16					0	1.16
2021			5.79	10%	0.58					0	0.58
<b>2022</b>			<b>7.63</b>	<b>10%</b>	<b>0.76</b>					<b>0</b>	<b>0.76</b>
Avg			9.46		0.95					0	0.95

Estimated stream depletions (acre-feet) (Table 2) are average-based and assume that all groundwater withdrawn by the Park's wells comes from reduced discharge of Medano Creek (i.e., change in aquifer storage = 0).

**Table 2**  
**National Park Service Monthly Net Stream Depletions for 2022 ARP Year**  
 (Units in acre-feet)

Response Area No.1 Total													
Stream Reach	2021								2022				Total
	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Medano Creek	0.065	0.062	0.065	0.065	0.062	0.065	0.062	0.065	0.065	0.060	0.065	0.062	0.763
<b>Total</b>	<b>0.065</b>	<b>0.062</b>	<b>0.065</b>	<b>0.065</b>	<b>0.062</b>	<b>0.065</b>	<b>0.062</b>	<b>0.065</b>	<b>0.065</b>	<b>0.060</b>	<b>0.065</b>	<b>0.062</b>	<b>0.763</b>

Depletions for the irrigation season will be remedied through forbearance agreements.

Compliance with the Sustainability Metric

GSDNPP obtained approval of the State Engineer per a letter dated January 14, 2021, 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 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 2021 and 2022 was 5.79 acre-feet and 7.63 acre-feet, respectively. Therefore, total NPS pumping under this Sustainability Metric is 13.42 acre-feet.

**Table 3**  
**Compliance with the National Park Service Sustainability Metric**  
(Units in acre-feet)

Year	Total Pumping
(1)	(2)
2021	5.79
2022	7.63
2023	
2024	
2025	
<b>Running Total</b>	<b>13.42</b>
<b>Running Annual Average</b>	<b>6.71</b>
<b>Total Volume Remaining</b>	<b>40.60</b>