

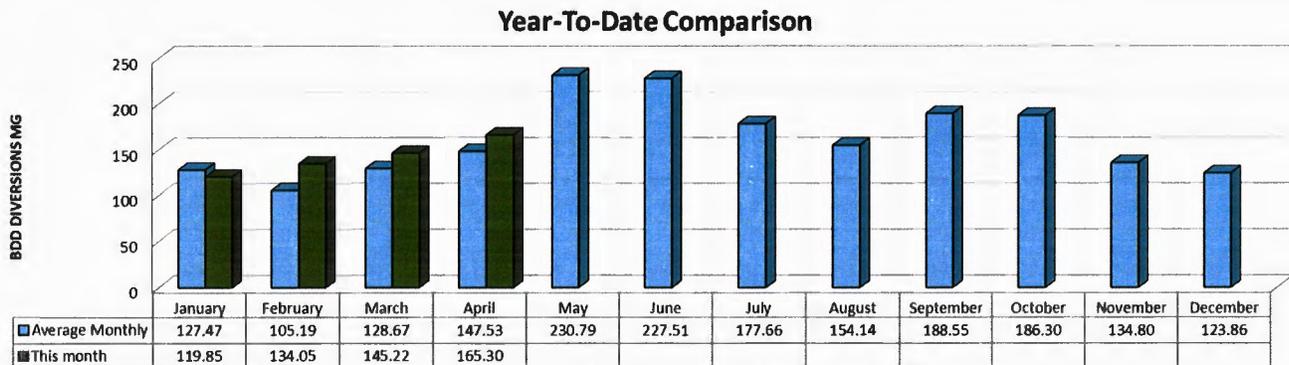




**Date:** May 6, 2021  
**To:** Buckman Direct Diversion Board  
**From:** Randy Sugrue, BDD Operations Superintendent  
**Subject:** Update on BDD Operations for the Month of April 2021

**ITEM:**

1. This memorandum is to update the Buckman Direct Diversion Board (BDDDB) on BDD operations during the month of April 2021. The BDD diversions and deliveries have averaged, in Million Gallons Per Day (MGD) as follows:
  - a. Raw water diversions: 5.51 MGD.
  - b. Drinking water deliveries through Booster Station 4A/5A: 4.75 MGD.
  - c. Raw water delivery to Las Campanas at BS2A: 0.42 MGD.
  - d. Onsite treated and non-treated water storage: 0.34 MGD Average.
2. The BDD is providing approximately 59% percent of the water supply to the City and County for the month.
3. Regional Demand/Drought Summary and Storage-see page 2.
4. The BDD year-to-date diversions are depicted below:



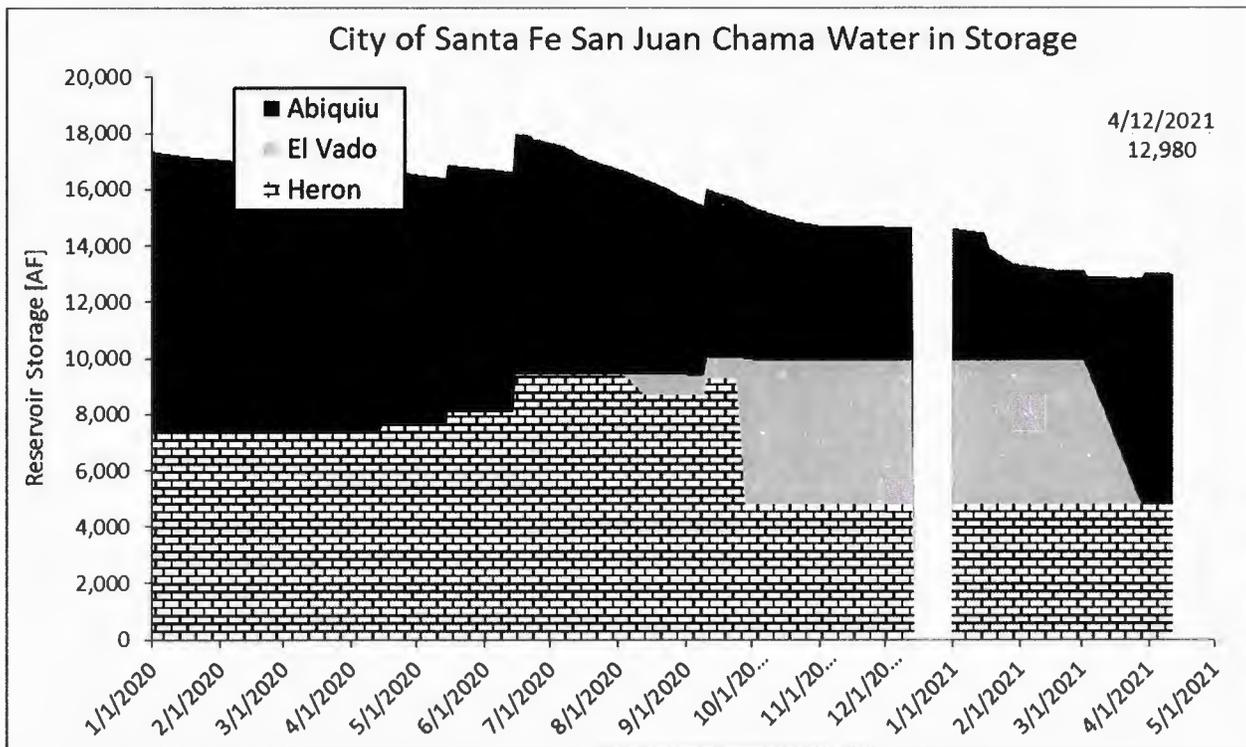


### Regional Water Overview

Daily metered regional water demand for the month of April 2021 is approximately 8.2 MGD.

Rio Grande flows for April 2021 averaged approximately 1100 CFS (cubic feet per second.)

**City/County/LC Storage-** as updated by partners.



### ENSO Summary

April 19, 2021

**ENSO Alert System Status: La Niña Advisory** La Niña is present.\*Equatorial sea surface temperatures (SSTs) are below average from the west-central to eastern Pacific Ocean. The tropical atmospheric circulation is consistent with La Niña. A transition from La Niña to ENSO-Neutral is likely in the next month or so, with an 80% chance of ENSO-neutral during May-July 2021.



## Buckman Direct Diversion Monthly SJC and Native Diversions

Apr-21

In Acre-Feet

Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	SJC Call Total	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partners Conveyance Losses
JAN	371.899	35.469	0.000	336.429	336.429	0.000	3.456
FEB	414.249	197.198	0.000	217.051	217.051	0.000	2.229
MAR	446.227	446.227	0.000	0.000	0.000	0.000	0.000
APR	507.470	415.370	0.000	92.100	92.100	0.000	0.915
MAY	0.000	0.000	0.000	0.000	0.000	0.000	0.000
JUN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
JUL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
AUG	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SEP	0.000	0.000	0.000	0.000	0.000	0.000	0.000
OCT	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NOV	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DEC	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL</b>	<b>1,739.845</b>	<b>1,094.264</b>	<b>0.000</b>	<b>645.581</b>	<b>645.581</b>	<b>0.000</b>	<b>6.600</b>

## In Million Gallons

Month	Native COUNTY	Native Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	All Partners Diversions
JAN	11.554	0.000	108.306	108.306	0.000	119.860
FEB	64.234	0.000	69.875	69.875	0.000	134.109
MAR	145.351	0.000	0.000	0.000	0.000	145.351
APR	135.300	0.000	30.000	30.000	0.000	165.300
MAY	0.000	0.000	0.000	0.000	0.000	0.000
JUN	0.000	0.000	0.000	0.000	0.000	0.000
JUL	0.000	0.000	0.000	0.000	0.000	0.000
AUG	0.000	0.000	0.000	0.000	0.000	0.000
SEP	0.000	0.000	0.000	0.000	0.000	0.000
OCT	0.000	0.000	0.000	0.000	0.000	0.000
NOV	0.000	0.000	0.000	0.000	0.000	0.000
DEC	0.000	0.000	0.000	0.000	0.000	0.000
<b>TOTAL</b>	<b>356.438</b>	<b>0.000</b>	<b>208.181</b>	<b>208.181</b>	<b>0.000</b>	<b>564.619</b>



## Buckman Direct Diversion Monthly SJC and Native Diversions

Dec-20

In Acre-Feet

Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	SJC Call Total	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partners Conveyance Losses
JAN	438.797	134.433	0.000	304.364	298.249	6.115	2.759
FEB	396.508	218.194	0.000	178.314	178.314	0.000	1.679
MAR	357.764	185.598	0.000	172.165	172.165	0.000	1.621
APR	372.408	187.945	0.000	184.463	122.188	62.275	1.737
MAY	641.374	529.897	0.000	111.477	111.477	0.000	0.889
JUN	637.220	509.818	0.000	127.402	1.618	125.784	1.017
JUL	784.520	0.000	0.000	784.520	784.520	0.000	3.663
AUG	886.856	12.503	0.000	874.354	839.919	34.435	4.214
SEP	762.357	0.000	0.000	762.357	682.674	79.683	3.556
OCT	593.109	0.000	0.000	593.109	539.638	53.472	5.845
NOV	390.743	353.481	0.000	37.261	37.261	0.000	0.345
DEC	392.394	355.317	0.000	37.077	37.077	0.000	0.377
<b>TOTAL</b>	<b>6,654.050</b>	<b>2,487.186</b>	<b>0.000</b>	<b>4,166.864</b>	<b>3,805.100</b>	<b>361.764</b>	<b>27.701</b>

## In Million Gallons

Month	Native COUNTY	Native Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	All Partners Diversions
JAN	43.789	0.000	98.103	96.304	1.975	141.892
FEB	71.073	0.000	57.454	57.454	0.000	128.527
MAR	60.456	0.000	55.473	55.473	0.000	115.928
APR	61.220	0.000	59.435	39.440	20.101	120.655
MAY	172.605	0.000	35.812	35.812	0.000	208.417
JUN	166.065	0.000	40.927	0.520	40.407	206.992
JUL	0.000	0.000	252.754	252.754	0.000	252.754
AUG	4.073	0.000	281.681	271.072	11.113	285.754
SEP	0.000	0.000	245.686	219.960	25.726	245.686
OCT	0.000	0.000	191.019	174.109	17.252	191.019
NOV	115.140	0.000	12.008	12.008	0.000	127.148
DEC	115.738	0.000	11.937	11.937	0.000	127.676
<b>TOTAL</b>	<b>810.158</b>	<b>0.000</b>	<b>1,342.289</b>	<b>1,226.843</b>	<b>116.574</b>	<b>2,152.447</b>



**Dec-19**

**In Acre-Feet**

Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	SJC Call Total	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partners Conveyance Losses
JAN	327.677	56.671	0.000	271.007	271.007	0.000	2.483
FEB	278.357	71.266	0.000	207.090	207.090	0.000	1.908
MAR	134.335	88.610	0.000	45.725	45.725	0.000	3.498
APR	126.924	114.750	0.000	12.175	12.175	0.000	0.110
MAY	550.285	550.285	0.000	0.000	0.000	0.000	0.000
JUN	546.222	546.222	0.000	0.000	0.000	0.000	0.000
JUL	649.014	23.285	0.000	625.729	519.383	106.345	2.907
AUG	422.340	17.075	0.000	405.265	318.606	86.659	1.912
SEP	518.606	169.956	0.000	348.650	261.901	86.749	1.564
OCT	531.254	15.373	0.000	515.881	477.452	38.429	4.676
NOV	325.023	42.180	0.000	282.843	280.865	1.978	2.936
DEC	334.880	48.808	0.000	286.071	286.071	0.000	2.893
<b>TOTAL</b>	<b>4,744.916</b>	<b>1,744.482</b>	<b>0.000</b>	<b>3,000.434</b>	<b>2,680.275</b>	<b>320.160</b>	<b>24.886</b>

**In Million Gallons**

Month	Native COUNTY	Native Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	All Partners Diversions
JAN	18.460	0.000	87.342	87.342	0.000	105.802
FEB	23.214	0.000	66.739	66.739	0.000	89.953
MAR	28.863	0.000	13.735	13.735	0.000	42.598
APR	37.378	0.000	3.924	3.924	0.000	41.302
MAY	179.246	0.000	0.000	0.000	0.000	179.246
JUN	177.923	0.000	0.000	0.000	0.000	177.923
JUL	7.585	0.000	201.598	167.635	34.262	209.183
AUG	5.562	0.000	130.586	102.846	27.974	136.148
SEP	55.360	0.000	112.401	84.384	28.017	167.762
OCT	5.008	0.000	166.279	154.168	12.409	171.287
NOV	13.739	0.000	91.045	90.407	0.638	104.785
DEC	15.899	0.000	92.109	92.109	0.000	108.008
<b>TOTAL</b>	<b>568.235</b>	<b>0.000</b>	<b>965.760</b>	<b>863.292</b>	<b>103.299</b>	<b>1,533.995</b>



## Buckman Direct Diversion Monthly SJC and Native Diversions

Dec-18

In Acre-Feet

Month	Total SJC + Native Rights	SP-4842 RG Native COUNTY	SD-03418 RG Native LAS CAMPANAS	SJC Call Total	SP-2847-E SJC Call CITY	SP-2847-N-A SJC Call LAS CAMPANAS	All Partners Conveyance Losses
JAN	383.578	77.954	0.000	305.624	305.624	0.000	2.708
FEB	343.467	75.227	0.000	268.240	268.240	0.000	2.415
MAR	363.780	267.512	0.000	96.268	96.268	0.000	4.036
APR	662.407	569.253	0.000	93.154	93.154	0.000	3.898
MAY	941.240	209.538	0.000	731.702	615.366	116.336	8.171
JUN	912.903	30.894	0.000	882.009	740.070	141.939	8.707
JUL	905.897	0.000	0.000	905.897	816.188	89.709	4.255
AUG	678.383	1.466	0.000	676.917	676.917	0.000	6.087
SEP	694.411	0.000	0.000	694.411	694.411	0.000	6.404
OCT	608.789	0.000	0.000	608.789	599.228	9.560	5.805
NOV	404.616	82.390	0.000	322.226	316.641	5.585	3.196
DEC	369.186	2.966	0.000	366.220	366.220	0.000	3.392
<b>TOTAL</b>	<b>7,268.656</b>	<b>1,317.200</b>	<b>0.000</b>	<b>5,951.456</b>	<b>5,588.327</b>	<b>363.129</b>	<b>59.073</b>

### In Acre-Feet

Month	Native COUNTY	Native Las Campanas	SJC TOTAL	SJC CITY	SJC Las Campanas	All Partners Diversions
JAN	77.954	0.000	302.916	302.916	0.000	380.870
FEB	75.227	0.000	265.825	265.825	0.000	341.052
MAR	267.512	0.000	92.231	92.231	0.000	359.744
APR	569.253	0.000	89.256	89.256	0.000	658.509
MAY	209.538	0.000	723.531	608.494	115.037	933.069
JUN	30.894	0.000	873.302	732.764	140.538	904.196
JUL	0.000	0.000	900.737	811.539	89.198	900.737
AUG	1.466	0.000	670.830	670.830	0.000	672.295
SEP	0.000	0.000	688.007	688.007	0.000	688.007
OCT	0.000	0.000	602.984	593.515	9.469	602.984
NOV	82.390	0.000	319.030	313.500	5.530	401.420
DEC	2.966	0.000	362.829	362.829	0.000	365.794
<b>TOTAL</b>	<b>1,317.200</b>	<b>0.000</b>	<b>5,891.477</b>	<b>5,531.706</b>	<b>359.772</b>	<b>7,208.677</b>





El Vado Reservoir, Photo from Mapio.net.  
May be subject to copyright

## 2021 Rio Grande

# Flow Projections at the BDD

May 6, 2021

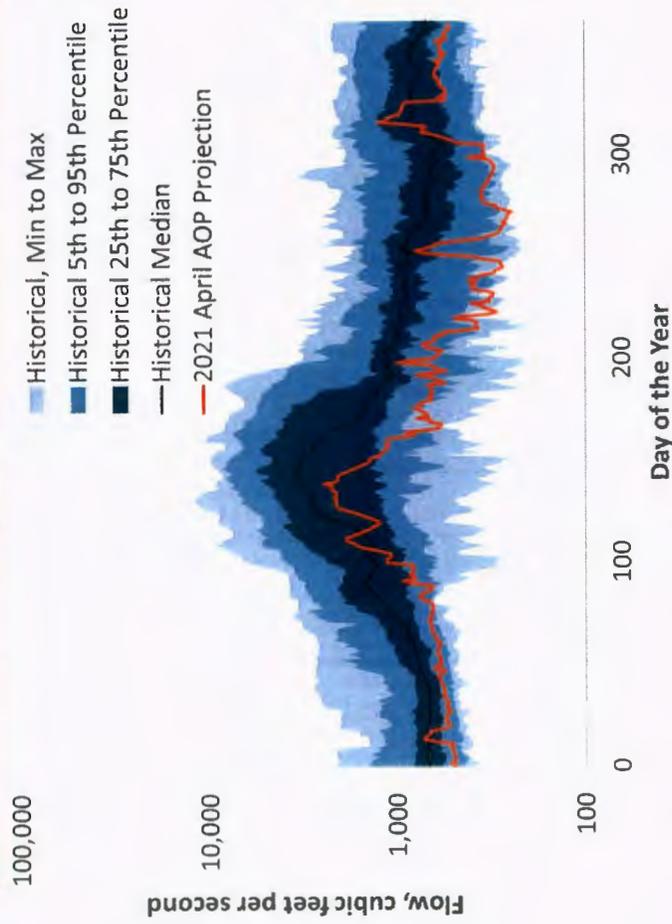
## **Purpose**

- Present projected 2021 Rio Grande flows
- Provide historical context for projections
- Provide explanation around projected flows

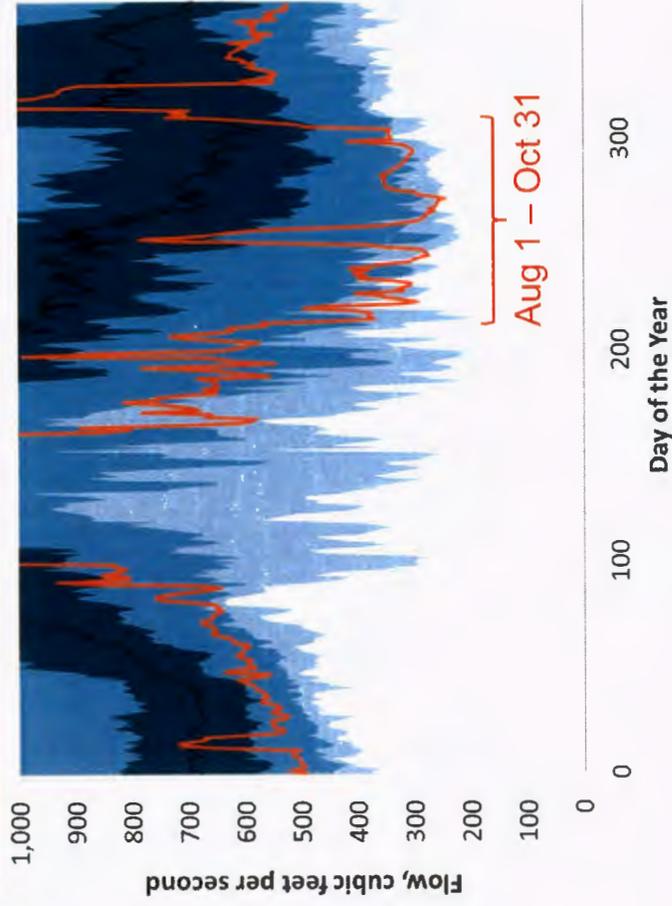
# 2021 Projections, Compared with Historical

Reclamation, US Army Corps of Engineers, and NM Interstate Stream Commission

Log Scale



Linear Scale

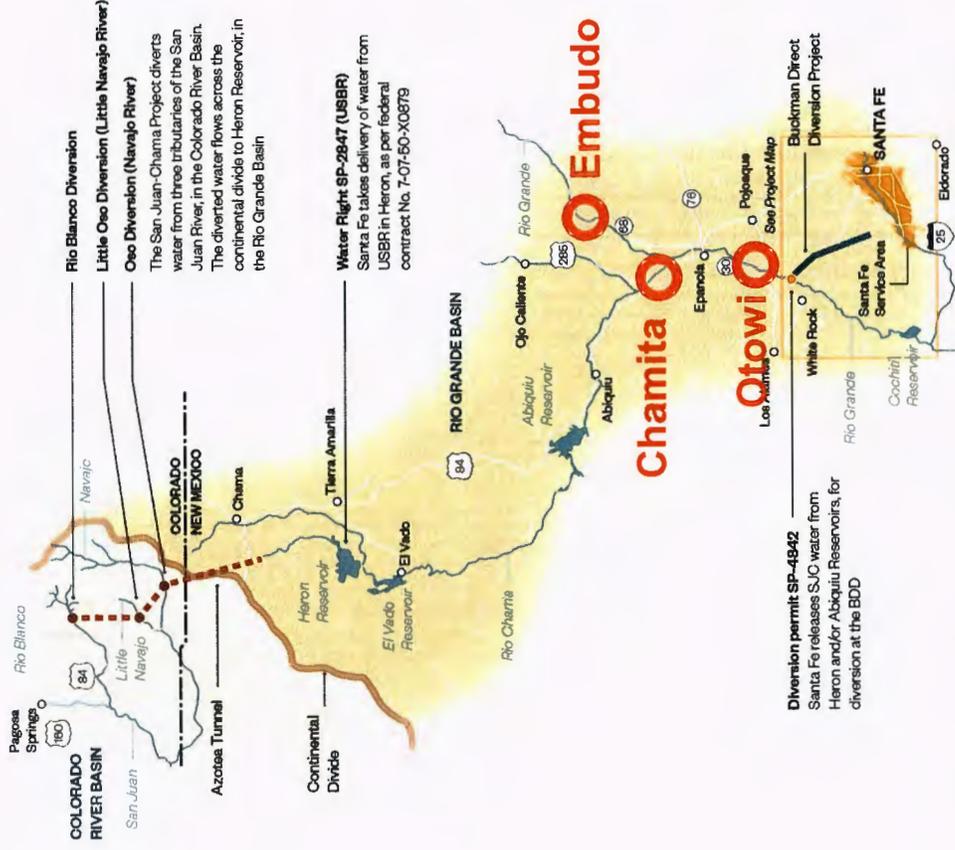
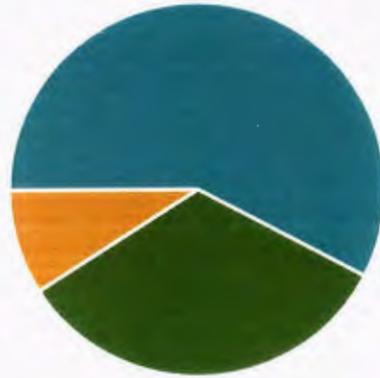


## Conclusions (The Answer at the Back of the Book)

- Low flows forecast on the Rio Grande this summer
  - Drought plays a role, but it's not the only cause
  - Low summer flows due to limited ability to use stored water
- Rio Grande typically augmented in summer with stored water:
  - Carryover native storage in El Vado: water saved in wet years (up to ~60,000 af)
  - In-year native storage: “smoothing out” the hydrograph (up to ~100,000 af or more)
  - San Juan-Chama water (up to ~100,000 af)
  - **Use of storage is very limited this year**
- Without storage, summer flows will be dependent on monsoon

# Overview

- Otowi Flows = Rio Grande + Chama
- Rio Grande = ~60% of total
- Chama = ~40% of total
  - Native = ~30%
  - San Juan Chama = ~10%



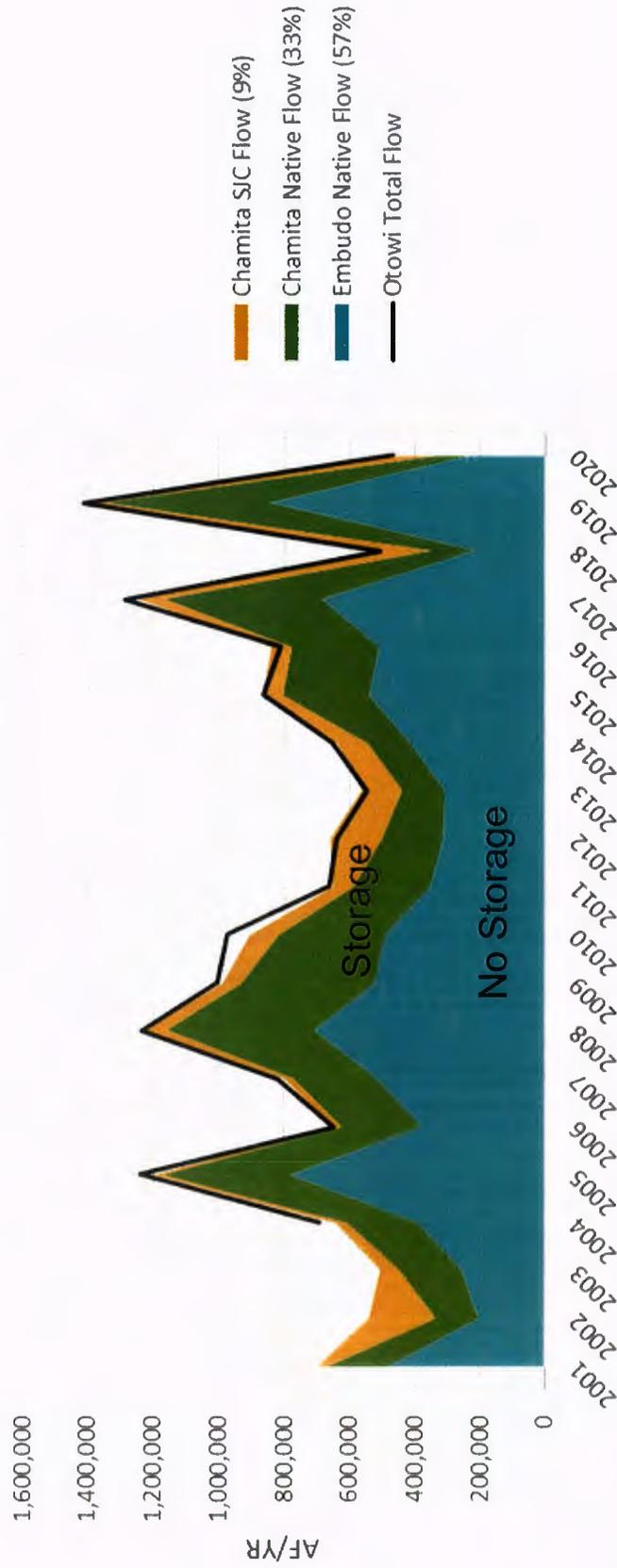
# Annual Otowi Flows

Annual Otowi Flows

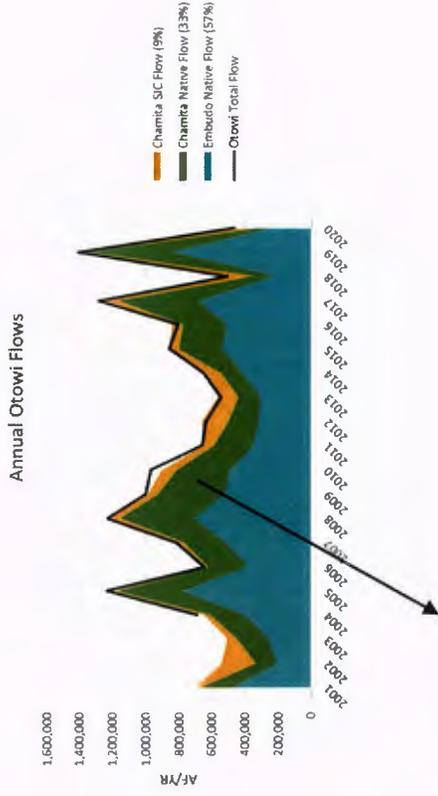


# The Role of Storage

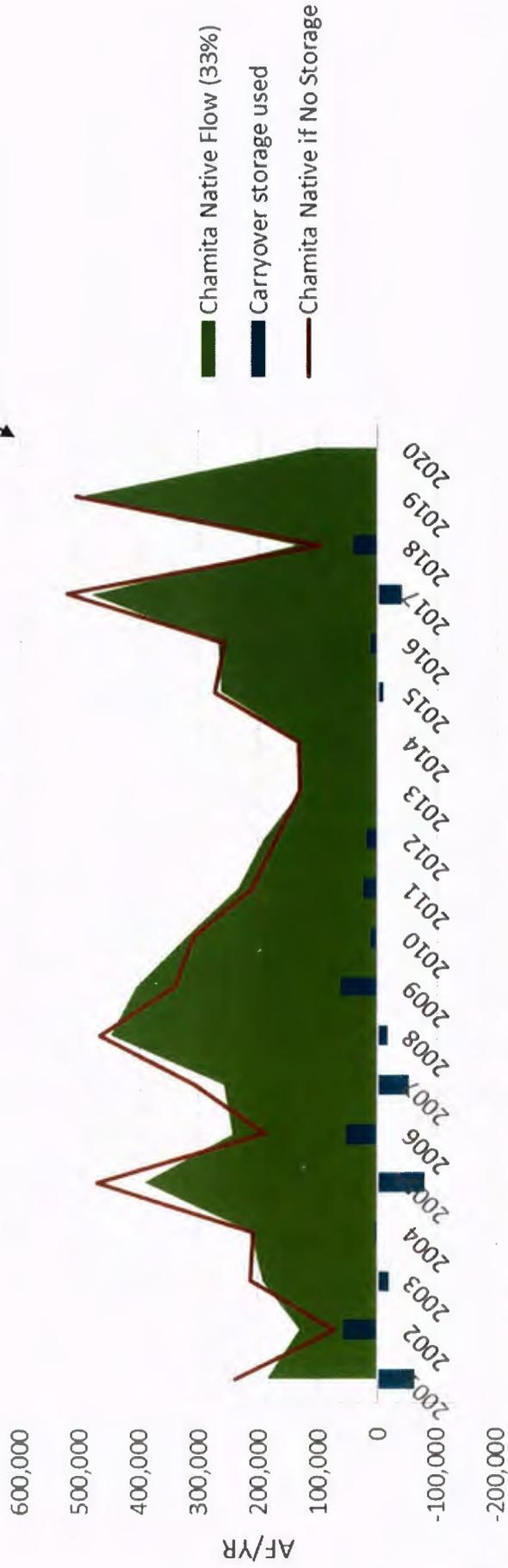
Annual Otowi Flows



# Carryover Storage, Historical



Annual Chama Flows

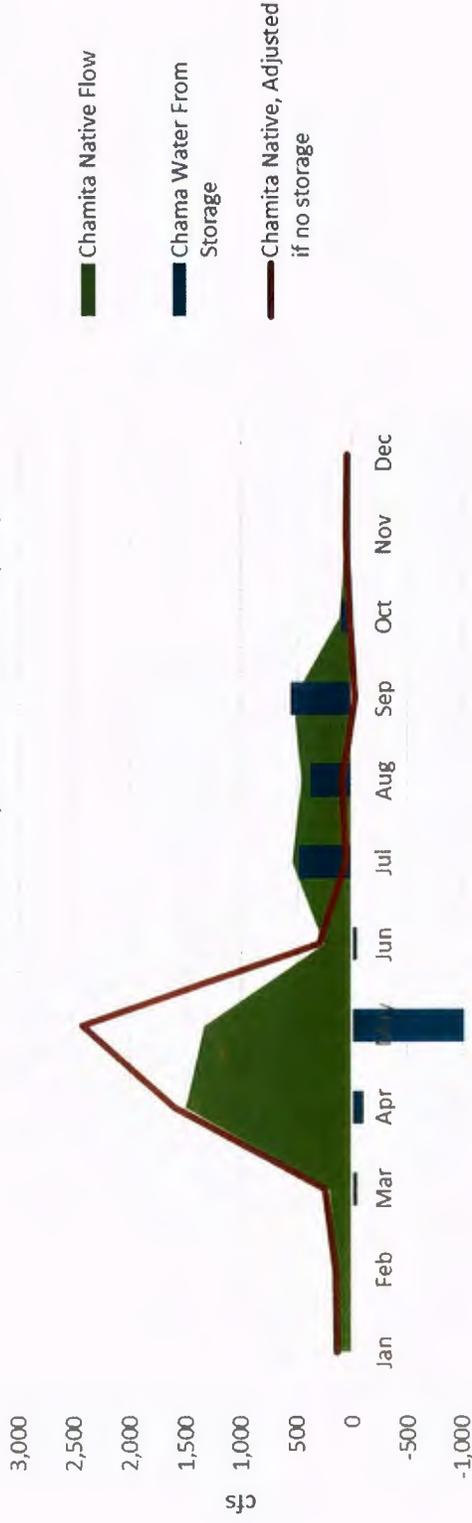


## Carryover Storage, 2021

- No carryover storage available
  - End of 2020 Native in storage ~3,500 af
  - That was all released for Article VIII

# In-Year Native Storage

2010 Monthly Chama Flows (cfs)

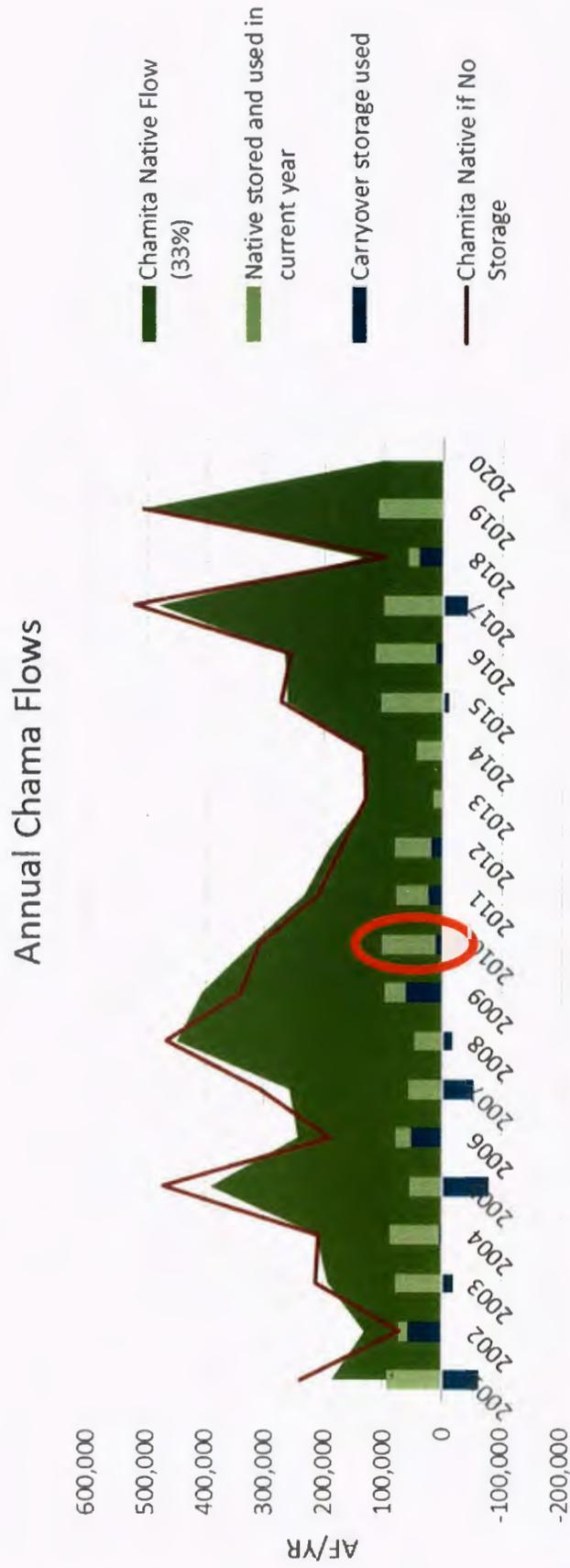


90,000 af native added to storage, then used later  
 → Shifts the hydrograph

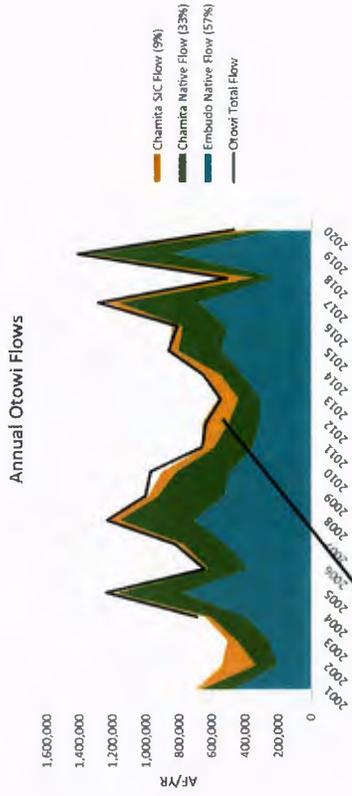
- Article VII prohibits adding water to storage this year
- Exception: about 20,000 af of “Prior and Paramount” water can be stored

# Total Effect of Native Storage

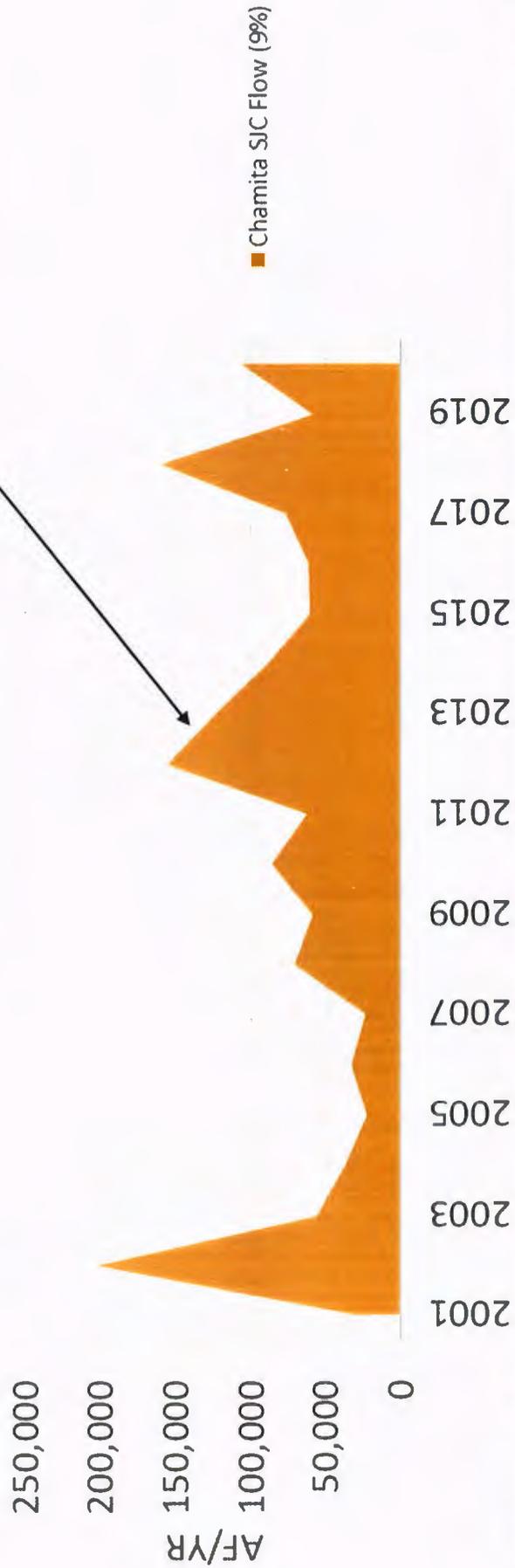
- Up to 100,000 af or more is commonly used (equivalent to 4 months at > 400 cfs)



# SJC Storage, Historical Use



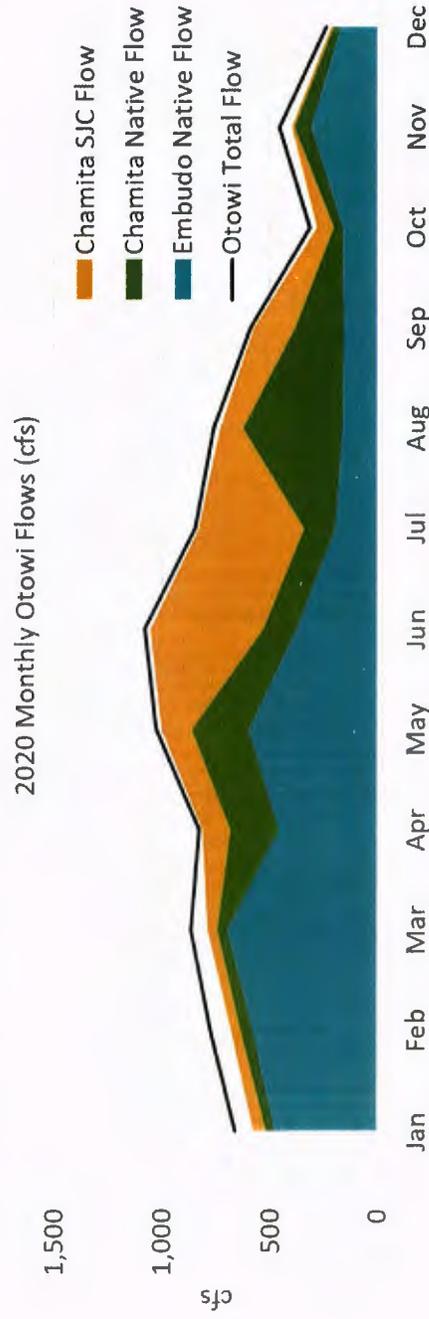
Annual Otowi Flows



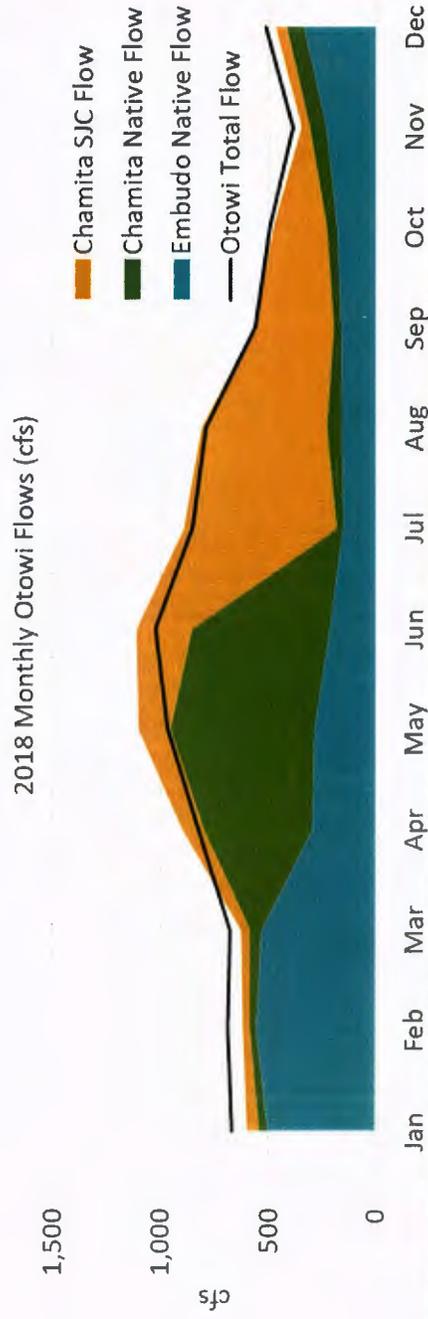
## SJC Storage, 2021

- End of 2020: about 140,000 acre-feet of SJC water in storage
  - ABCWUA: 107,000
  - City of Santa Fe: 14,000
  - Santa Fe County: 1,250
  - Cochiti Rec Pool: 4,600
  - Federal San Juan (unallocated SJC): 3,900
  - Reclamation: 1,300
  - MRGCD: 250
- 2021 Allocations
  - This year entirely dependent on current year snowmelt
  - As of late April, <10% of full allocation. Will increase as snow melts
  - **No significant amount of SJC water available**

# Recent Dry Year Examples



Late summer flow is dominantly from the Chama.



We aren't expecting those flows this year.

# Conclusions

- Low flows forecast on the Rio Grande this summer
  - Drought plays a role, but it's not the only cause
  - Low flows magnified by limitations on stored water
- Rio Grande typically augmented in summer with ~100,000 af of stored water
  - 100,000 af = 4 months at 400 cfs
  - Carryover native storage in El Vado: water saved in wet years (up to ~60,000 af)
  - In-year native storage: "smoothing out" the hydrograph (up to ~100,000 af or more)
  - San Juan-Chama water (up to ~100,000 af)
  - **Use of storage is very limited this year: only current year SJC allocations**
- Without storage, summer flows will be dependent on monsoon

## Questions?

- Steve Shultz, Hazen and Sawyer
- [sshultz@hazenandsawyer.com](mailto:sshultz@hazenandsawyer.com)
- 505-629-3283



The background of the slide is a blue gradient with several water droplets of various sizes scattered across it. The droplets are rendered with realistic highlights and shadows, giving them a three-dimensional appearance. The overall aesthetic is clean and professional, typical of a corporate or technical presentation.

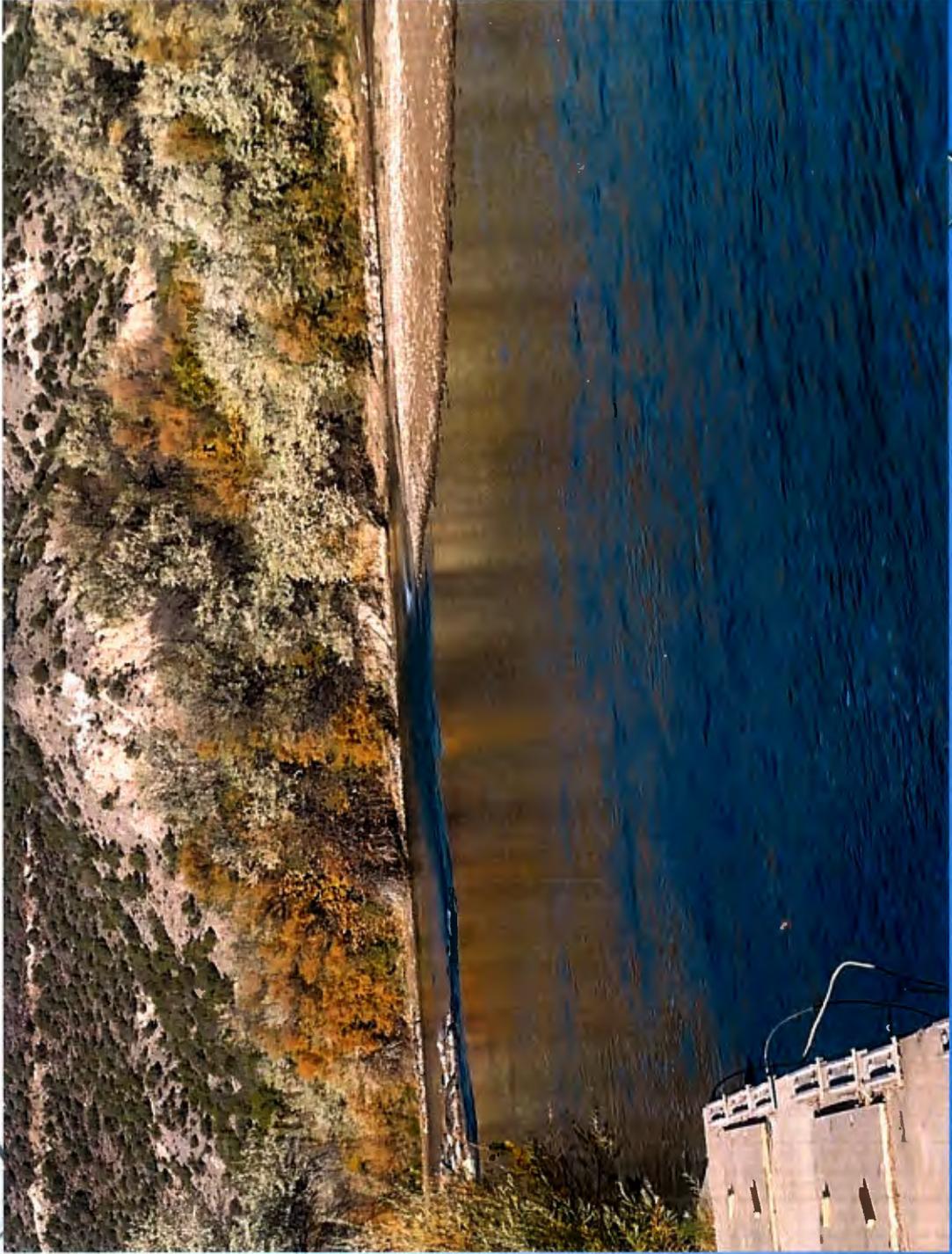
# **BDD DIVERSIONS AT MINIMUM RIVER FLOWS**

• IN 2020 BDD EXPERIENCED REDUCED RIO GRANDE RIVER FLOW RATES AS LOW AS 250 CUBIC FEET PER SECOND. BDD'S ORIGINAL PERMITS REQUIRE TOTAL CURTAILMENT OF NATIVE WATER DIVERSIONS IF NATIVE WATER FLOW FALLS TO 200 CFS OR BELOW; HOWEVER SAN JUAN CHAMA WATER MAY BE DIVERTED.

- **THE BDD INTAKE STRUCTURE HAS DEMONSTRATED THE ABILITY TO DIVERT WATER FROM THE RIO GRANDE AT LEVELS BELOW 300 CUBIC FEET PER SECOND (CFS). AS THE FLOW DECREASES BY 50 CFS THE LEVEL OF THE RIVER SURFACE LOWERS APPROXIMATELY 2 IN.**

- RIO GRANDE RIVER DEPTH AT THE DIVERSION IS MEASURED FROM THE FLOOR OF DIVERSION CELL NUMBER 5. THE RIVER DEPTH AT 1000 CFS, AVERAGE FLOW IN THE SUMMER MONTHS, IS APPROXIMATELY 79 INCHES. THE MEASUREMENT TO THE TOP OF THE SCREEN IS 57.3 INCHES



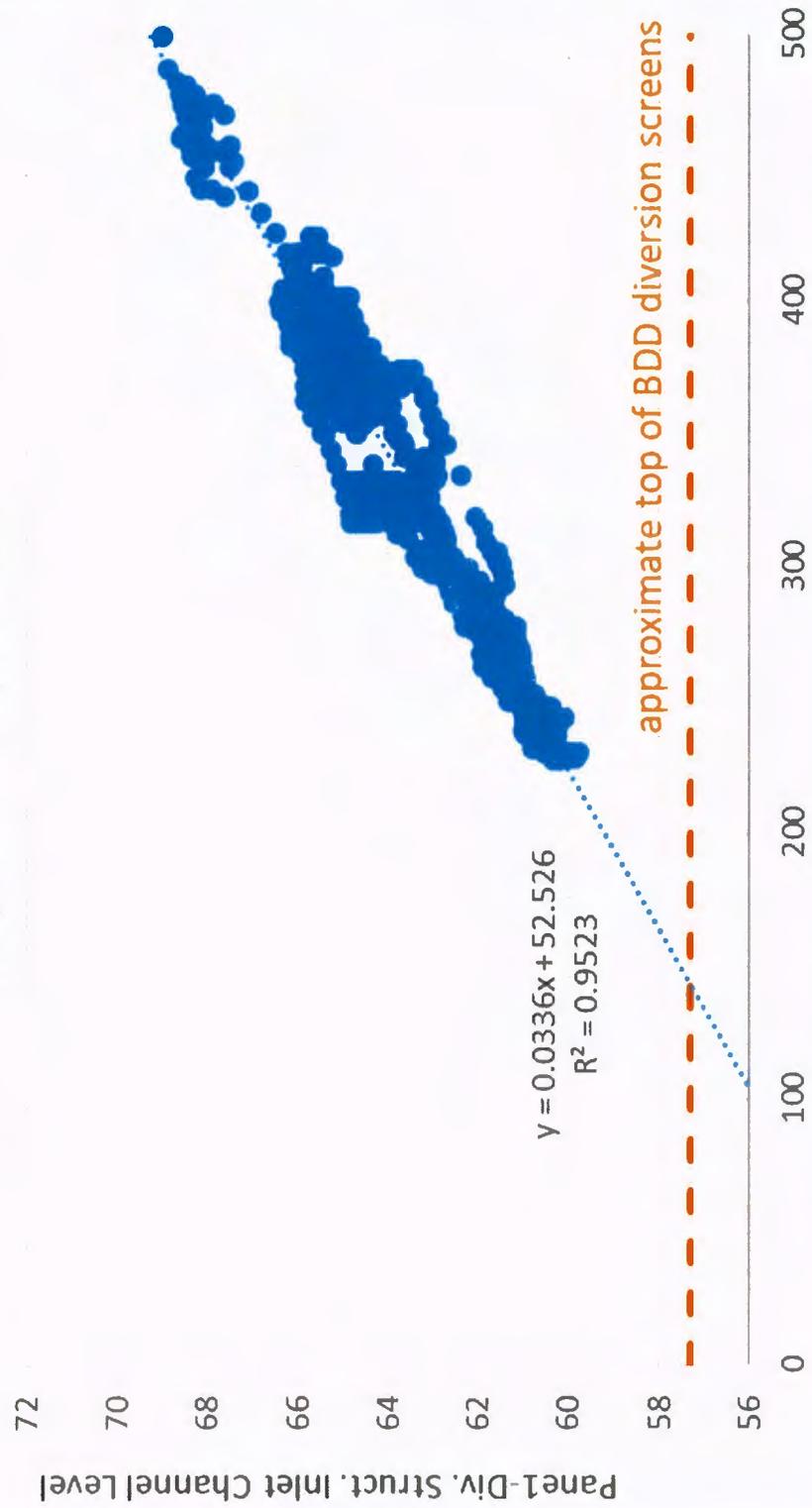






- THE GRAPH BELOW PLOTS THE RIVER LEVEL IN OCTOBER AND NOVEMBER OF 2020 WHEN RIVER FLOW DROPPED BELOW 250 CFS. THE SCREENS REMAINED COVERED AND THE DATA INDICATES THAT THE SCREENS WILL REMAIN COVERED AT 200 CFS AND BELOW.

# River Level on BDD Diversion Structure 10/1/2020 - 11/11/2020



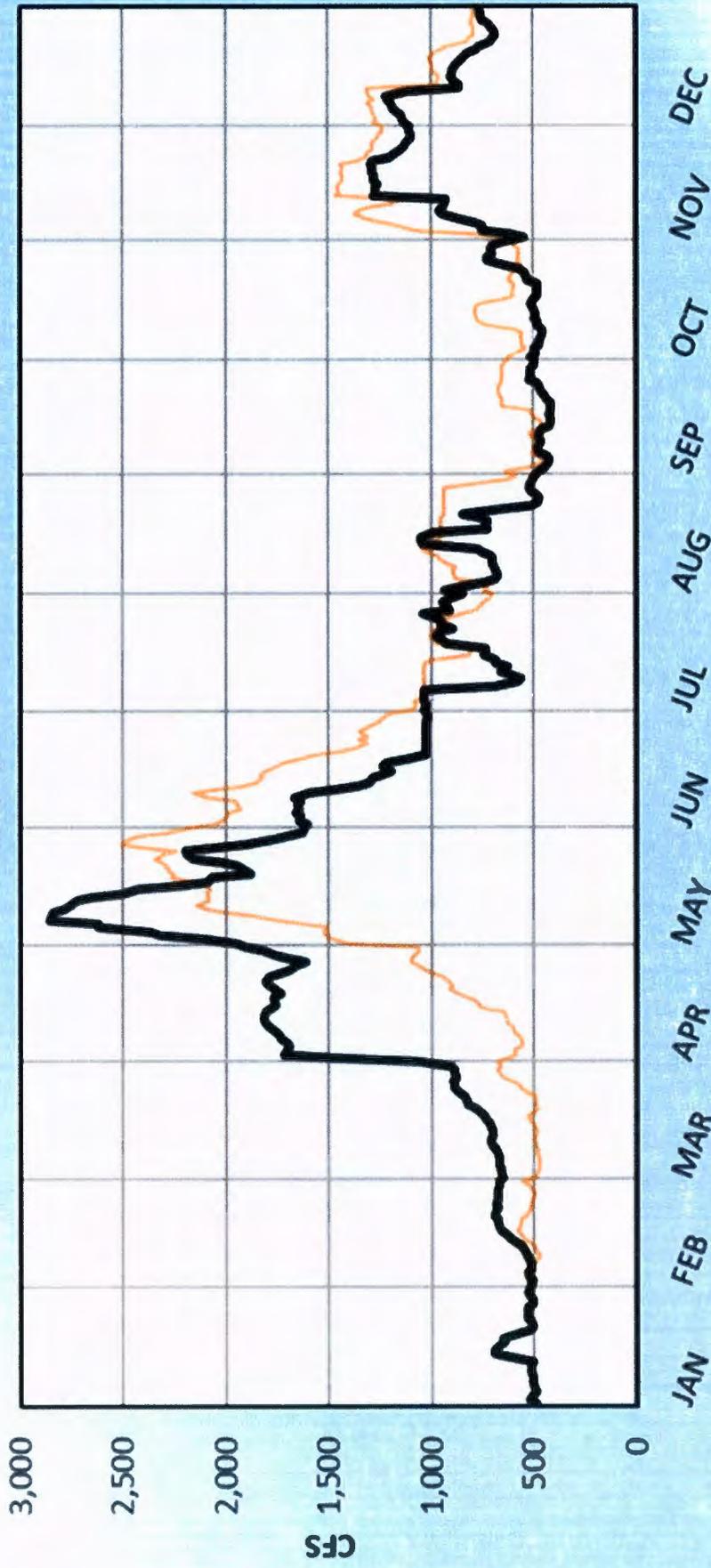
USGS 08313150 Rio Grande abv Buckman Diversion, nr White Rock, NM

- THE DEPTH OF WATER IN THE CELL IS DRAWN DOWN SLIGHTLY WHEN THE PUMP IS ON. THE GRAPH BELOW SHOWS THAT THIS DRAWDOWN REMAINS CONSISTENT WITH THE RIVER LEVEL AT LOW AND HIGH PUMPING RATES AND DOES NOT IMPACT THE ABILITY TO DIVERT WATER.



- **CURRENT RIVER FLOW PREDICTIONS FROM USBR FOR 2021, AS SHOWN IN THE GRAPH BELOW, INDICATE THAT RIVER FLOW WILL BE WELL ABOVE THE 200 CFS LEVEL.**

# Otowi



- **SHOULD RIO GRANDE RIVER FLOWS FALL BELOW THESE LEVELS WE HAVE A HIGH LEVEL OF CONFIDENCE THAT BDD WILL BE ABLE TO DIVERT DOWN TO 200 CFS.**



# Memorandum



## Buckman Direct Diversion

**Date:** April 28, 2021

**To:** Buckman Direct Diversion Board

**From:** Rick Carpenter, BDD Project Manager  
Kyle Harwood, BDD Legal Counsel

**Subject:** Term only extension Addendum to the Memorandum of Agreement (MOA) by and between the Signatories of the Middle Rio Grande Endangered Species Collaborative Program

---

### BACKGROUND AND SUMMARY:

Staff and counsel for the Buckman Direct Diversion Board have been involved with the Collaborative Program since the approval of the Record of Decision for the BDD Project, and in 2020 the Board requested and became an approved member of the Executive Committee of the Collaborative Program.

The original 2008 Collaborative Program MOA had an effective period of 13 years, or through May 15, 2021. All Executive Committee member organizations have been requested to execute a 1 year extension, during which the members intend to draft and execute a new agreement, see letter and Addendum attached to this memo for additional details

### RECOMMENDATION:

Board staff, counsel and consultants recommend the BDD Board approve the 1 year term only extension to the Collaborative Program MOA.





## Middle Rio Grande Endangered Species Collaborative Program

*Est. 2000*

April 8, 2021

**TO:** Middle Rio Grande Endangered Species Collaborative Program (MRGESCP) Signatories

**FROM:** MRGESCP Executive Committee (EC) Co-Chairs

**SUBJECT:** Addendum to the 2008 Memorandum of Agreement (MOA)

The MOA that all MRGESCP signatories sign onto was originally executed on May 15, 2008 for a term of 13 years, or through May 15, 2021. At the March 25, 2021 EC meeting, the MRGESCP EC approved the attached addendum to the 2008 MOA. This addendum extends the terms of the 2008 MOA, unchanged, for one calendar year to May 15, 2022. As the MRGESCP is in the process of implementing a new *Science & Adaptive Management (S&AM) Plan*, the EC recognizes the need to postpone drafting and adopting a new MOA to allow for the completion of the current transition period.

During the one-year extension, the MRGESCP will undertake drafting and executing a new written agreement. This written agreement is intended to represent the continued collective participation of MRGESCP signatories under the MRGESCP's new guiding principles and operations, as laid out in the *S&AM Plan* and *Long-Term Plan*.

All current active MRGESCP signatories are receiving the 2021 MOA Addendum to review and sign, indicating their agreement with the extended one-year period, and their commitment to continuing as a signatory of the MRGESCP. Please return all signed copies to Michelle Tuineau of the Program Support Team at [mtuineau@west-inc.com](mailto:mtuineau@west-inc.com) by May 15, 2021.

ADDENDUM  
TO THE  
MEMORANDUM OF AGREEMENT

BY AND BETWEEN THE  
SIGNATORIES OF THE MIDDLE RIO GRANDE ENDANGERED SPECIES COLLABORATIVE PROGRAM

FOR THE TERM OF  
MAY 15, 2021 THROUGH MAY 15, 2022

May 15, 2022

This Addendum incorporates by reference and is to be read with the Memorandum of Agreement (MOA) entered into on May 15, 2008 by the Middle Rio Grande Endangered Species Collaborative Program (Collaborative Program) signatories.

**TERM AND STATEMENT OF PURPOSE**

The MOA was executed on May 15, 2008, with an original effective period of 13 years, or through May 15, 2021. With this Addendum, the terms of the MOA have been extended and will remain in effect, unchanged, through May 15, 2022 when this Addendum expires.

This Addendum extends the date of the MOA by one year, during which time the Collaborative Program signatories intend to draft and execute a new written agreement. The new written agreement is intended to represent the Signatories' collective participation as part of the Collaborative Program's new guiding principles and operations under the *Science & Adaptive Management Plan* and the *Long-Term Plan*.

**SIGNATORIES**

Only signatories to the May 15, 2008 MOA who are currently active in the Collaborative Program are eligible to sign this addendum. These are:

- Albuquerque Bernalillo County Water Utility Authority
- Assessment Payers Association of the Middle Rio Grande Conservancy District
- Audubon New Mexico
- Bosque Ecosystem Monitoring Program
- Buckman Direct Diversion
- City of Albuquerque
- Middle Rio Grande Conservancy District
- New Mexico Attorney General's Office
- New Mexico Department of Game and Fish
- New Mexico Interstate Stream Commission
- Pueblo of Isleta
- Pueblo of Sandia
- Pueblo of Santa Ana
- U.S. Army Corps of Engineers
- U.S. Bureau of Reclamation
- U.S. Fish and Wildlife Service
- University of New Mexico

The signatories to this MOA Addendum agree to continue to participate in and support the Collaborative Program.

**Name of your organization:**

---

**Sign:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**MEMORANDUM OF AGREEMENT  
for the  
MIDDLE RIO GRANDE ENDANGERED SPECIES COLLABORATIVE PROGRAM**

**STATEMENT OF PURPOSE**

The Middle Rio Grande Endangered Species Collaborative Program (Program) is established by this Memorandum of Agreement (MOA) as a collaborative effort consisting of federal, state, and local governmental entities, Indian Tribes and Pueblos, and non-governmental organizations. The intent of Program participants is two-fold: first, to prevent extinction, preserve reproductive integrity, improve habitat, support scientific analysis, and promote recovery of the listed species within the Program area in a manner that benefits the ecological integrity, where feasible, of the Middle Rio Grande riverine and riparian ecosystem; and, second, to exercise creative and flexible options so that existing water uses continue and future water development proceeds in compliance with applicable federal and state laws. To achieve these ends, the Program may not impair state water rights or federal reserved water rights of individuals and entities; federal or other water rights of Indian nations and Indian individuals, or Indian trust assets; San Juan-Chama Project contractual rights; and the State of New Mexico's ability to comply with Rio Grande Compact delivery obligations.

In April, 2002, a Memorandum of Understanding (MOU) was executed by certain federal agencies, the State of New Mexico, Indian Pueblos, and other parties that set forth certain interim agreements with respect to establishment of the Program. Through a series of amendments, the MOU was subsequently extended by the parties through December 2008. This MOA supersedes the MOU, as amended. The signatories to this MOA agree to participate in and support the Program.

**AUTHORITIES**

- A. Consultation and Coordination. Under section 4(f) of the Endangered Species Act (ESA), 16 U.S.C. §§ 1531 et seq., the Secretary of the Interior is directed to develop and implement plans for the conservation of endangered species. The Secretary of the Interior may enlist the services of public and private agencies, individuals and

institutions, including Program signatories, in developing and implementing such recovery plans. Advice from such agencies, individuals, and institutions, such as that offered by Program signatories, is not subject to the Federal Advisory Committee Act, 5 U.S.C. app. 2. The Program does not create an agency, board, commission, or any other entity of state government, nor does the MOA create a state advisory committee subject to Section 9-1-9 NMSA 1978.

- B. Applicable Tribal Law. Pursuant to the applicable Tribal laws, and inherent Tribal sovereignty, the tribes have the authority to administer water rights, to oversee the development of water resources, and to protect and manage fish and wildlife resources within the boundaries of their reservations.
- C. Statement of Authorities. The signatories hereby state that they have legal authority to enter into this MOA, and have legal authority to work toward the intent of the Program.

## **TERMS AND CONDITIONS**

- A. Effective Date and Duration. This MOA shall remain in effect for a period of 13 years from the date of its execution by any agency of the United States and any additional non-Federal signatory, unless extended by written agreement.
- B. Amendment. This MOA may be amended by written agreement of the signatories. Any signatory may withdraw from this MOA upon written notice to the other signatories.
- C. No Delegation or Abrogation. All signatories to this MOA have statutory legal responsibilities that cannot be delegated. This MOA does not and is not intended to abrogate any statutory or legal authorities.
- D. Consistency with Applicable Law. This MOA is subject to and is intended to be consistent with all applicable Federal, State, and Tribal laws and interstate compacts. Federal agency consultation with Tribes shall occur for all Program activities affecting Tribal resources in conformance with all applicable Executive and Secretarial Orders and Policies.

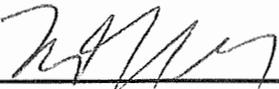
E. Legislative Approval. All funding commitments to carry out the Program are subject to approval by the appropriate State, Tribal, and Federal legislative bodies.

F. Governance and Operating Procedures: The governing body of the Program (Executive Committee) shall operate pursuant to Program Bylaws and other documents, as needed, specifying Program governance and operating procedures, and may amend those documents as needed.

G. Program Modifications. Modifications to the Program may be made pursuant to Bylaws adopted by the Executive Committee of the Program and without modification to this MOA or the additional written consent of the signatories.

**Insert the name of your organization here:**

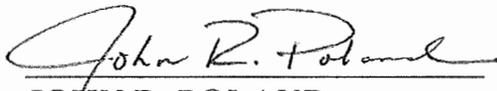
ABCWMA

**Sign here**   
**INSERT YOUR NAME HERE,**  
**Insert your title here**

Executive Director

7/17/08  
**Date**

**Department of Interior  
Bureau of Reclamation  
Albuquerque Area Office**



**JOHN R. POLAND,  
Area Manager**

5/21/08

**Date**

*Middle Rio Grande Endangered Species Collaborative Program  
Memorandum of Agreement  
May 15, 2008*

Insert the name of your organization here: *CITY OF ALBUQUERQUE*

*MATTHEW F. SCHMADER*

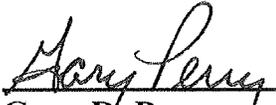
Sign here *MS*  
INSERT YOUR NAME HERE,

Insert your title here

*SUPERINTENDENT, OPEN SPACE DIVISION  
PARKS AND RECREATION DEPARTMENT*

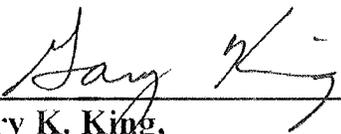
*July 15, 2008*  
Date

Middle Rio Grande Conservancy District  
P.O. Box 581  
Albuquerque, NM 87103

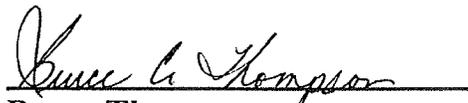
  
\_\_\_\_\_  
Gary D. Perry,  
Chairman

  
\_\_\_\_\_  
Date

**Office of the New Mexico Attorney General:**

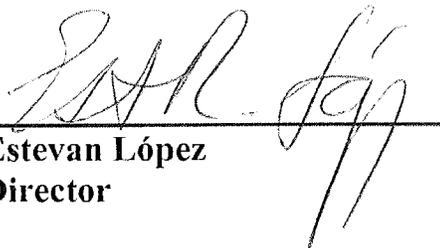
  
\_\_\_\_\_  
**Gary K. King,**  
**New Mexico Attorney General**

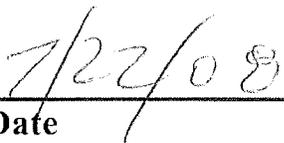
**New Mexico Department of Game and Fish**

  
\_\_\_\_\_  
**Bruce Thompson,**  
**Director**

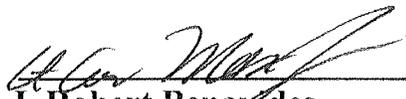
7-22-08  
\_\_\_\_\_  
**Date**

**New Mexico Interstate Stream Commission**

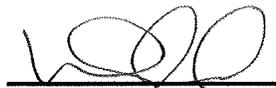
  
\_\_\_\_\_  
**Estevan López**  
**Director**

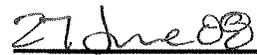
  
\_\_\_\_\_  
**Date**

Pueblo of Isleta:

  
\_\_\_\_\_  
For **J. Robert Benayides**  
**Governor**

Pueblo of Santa Ana

  
\_\_\_\_\_  
Ulysses G. Leon  
Governor

  
\_\_\_\_\_  
Date

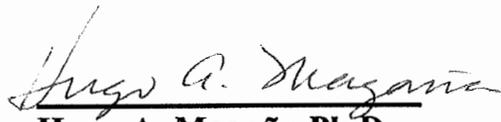
**U.S. ARMY CORPS OF ENGINEERS  
Albuquerque District**



**B. A. Estok**  
**Lieutenant Colonel, U.S. Army**

**Date signed:** 9 JUN 08

**U.S.D.A. Forest Service, Rocky Mountain Research Station**



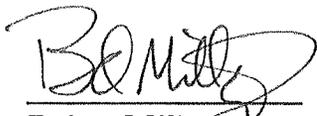
**Hugo A. Magaña Ph.D.**

**Insert your title here**

**Dec. 8, 2008**

**Date**

**U.S. Fish and Wildlife Service:**

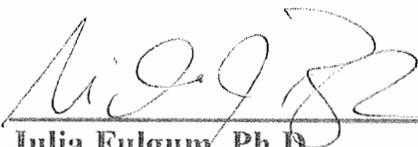


**Brian Millsap,  
Fish and Wildlife State Administrator,  
New Mexico**

17 July 2008

**Date**

**The University of New Mexico**

*for*   
\_\_\_\_\_  
**Julia Fulgum, Ph.D.**  
**Interim Vice President for Research**

**Date signed:**

**Middle Rio Grande  
Endangered Species Collaborative Program**

c/o Bureau of Reclamation  
555 Broadway Ave NE, Suite 100  
Albuquerque NM 87102  
PHONE 505-462-3541 | FAX 505-462-3783



[www.mrgesa.com](http://www.mrgesa.com)

Federal Co-Chair: **David Sabo**  
Non-Federal Co-Chair: **Estevan Lopez**  
Program Manager: **Lisa K. Croft**

David K. Mitchell, President  
Assessment Payers Association of the MRGCD  
P.O. Box 326  
Los Lunas, NM 87031

August 21, 2008

Dear Mr. Mitchell

Thank you for your letter of May 19, 2008 regarding representation on the Executive Committee of the Collaborative Program.

The Executive Committee met on July 17, 2008 and at that time determined that additional information was needed before a final decision could be made on your application. The By-laws for Collaborative Program state:

*The Executive Committee may consider among other things the following criteria in determining whether to accept an application, provided that an applicant need not meet all criteria, and further provided that meeting the criteria does not guarantee an applicant's acceptance as a signatory. These criteria include:*

- a) *representation of a sizable constituency, for example through public outreach or membership;*
- b) *contribution to the non-federal cost share, including in-kind services;*
- c) *ownership of an interest affected by the Program, such as land, water, or other property rights;*
- d) *jurisdictional or regulatory responsibility, including sovereignty; and*
- e) *commitment to participation.*

The Executive Committee would like any additional information you would like to provide that addresses the above criteria regarding the Assessment Payers Association of the MRGCD, but in particular would appreciate additional information regarding criteria (a) and (c). This additional information will help the Executive Committee to make a better informed decision regarding your application for membership to the Executive Committee.

The APA has been a valued and active participant in the Collaborative Program and we look forward to continuing to work with your organization as they provide a critical link to the agricultural community. Please feel free to contact Lisa Croft, Program Manager at 505 462-3541 or Estevan Lopez, Non Federal Co-Chair, at 505 827-6103; if you have any questions or concerns.

Thank you again for your support and commitment to the Collaborative Program.

Sincerely,

Dave Sabo  
Federal Co-Chair

  
Estevan Lopez  
Non-Federal Co-Chair

**Assessment Payers Association of the Middle Rio Grande  
Conservancy District:**



5-16-08

---

**David K. Mitchell,  
President**

**Middle Rio Grande  
Endangered Species Collaborative  
Program**

c/o Bureau of Reclamation  
555 Broadway Ave NE, Suite 100  
Albuquerque NM 87102  
PHONE 505-462-3541 | FAX 505-462-3783



<http://www.mrgesa.com/>

Federal Co-Chair: **David Sabo**  
Non-Federal Co-Chair: **Estevan Lopez**  
Program Manager: **Lisa K. Croft**

---

Governor Stuart Paisano  
Pueblo of Sandia  
481 Sandia Loop  
Bernalillo, New Mexico 87004

August 21, 2008

Dear Governor Paisano:

The Middle Rio Grande Endangered Species Collaborative Program recently finalized the Memorandum of Agreement for Program participants. Enclosed you will find the signature page for you to complete and return to the Program.

As a long time Program member we look forward to your continuing participation and involvement in achieving the Program goals.

Sincerely,

Federal Co-Chair  
Dave Sabo

Non-Federal Co-Chair  
Estevan Lopez

**Pueblo of Sandia**

---

**Governor Stuart Paisano**

---

**August , 2008**

*Middle Rio Grande Endangered Species Collaborative Program  
Memorandum of Agreement  
May 15, 2008*

**Audubon New Mexico**



---

Jonathan Hayes  
*Executive Director*

**2/20/2020**

---

Date



# Memorandum



**Date:** May 6, 2021  
**To:** Buckman Direct Diversion Board  
**From:** Mackie Romero, BDD Financial Temp  
**Subject:** Budget Amendment Resolution (BAR)

**ITEM:**

Request for approval of a Budget Adjustment Resolution.

**BACKGROUND:**

The Buckman Direct Diversion prepares monthly budget projections which are used to evaluate current and future spending. These projections assist in determining our financial needs by budgeted line item and major category. The projections indicate a shortfall in the electricity category.

This request will move \$180,000 from salary savings to the electricity category. This budget adjustment will make funds available to cover electricity expenses through the end of the fiscal year. Any unexpended amounts will remain in the fund as uncommitted budget. This request will not cause an increase to our current operating budget and is in accordance with our BDD Working Capital and Billing Policy.

**ACTION REQUESTED:**

Staff recommends approval of the attached Budget Adjustments Request to our adopted FY2021 Operating Budget to move funds from Salaries & Benefits to Electricity.

<u>Category</u>	<u>Munis Org/Account</u>	<u>Amount</u>
Salaries & Benefits	8000801.500110	(\$180,000)
Electricity	8000801.514050	\$180,000
<b>FY 2021 Total Budget Net Effect</b>		<b>\$0</b>

Approved by BDDDB May 6, 2021

Commissioner Anna Hansen, BDDDB Chair



Log # {Finance use <u>only</u> }:	
Batch # {Finance use <u>only</u> }:	

## City of Santa Fe, New Mexico BUDGET AMENDMENT RESOLUTION (BAR)

DEPARTMENT / DIVISION NAME PUD/Buckman Direct Diversion	DATE 05/06/2021
--	--------------------

ITEM DESCRIPTION	ORG	OBJECT	PROJECT	INCREASE	DECREASE
<b><u>EXPENDITURES</u></b>				<i>{enter as positive #}</i>	<i>{enter as negative #}</i>
Salaries	8000810	500110			180,000
Electricity	8000810	514050		180,000	
<b><u>REVENUES</u></b>				<i>{enter as negative #}</i>	<i>{enter as positive #}</i>

**JUSTIFICATION:** *(use additional page if needed)*  
*--Attach supporting documentation/memo*

\$	-	\$	-
----	---	----	---

To move budget from salaries to electricity to cover projected shortfall.

<i>{Complete section below if BAR results in a net change to ANY Fund}</i>	
Fund(s) Affected	Fund Balance Increase/(Decrease)
<b>TOTAL:</b>	

Approved by BDDB 05/06/21

Mackie Romero	05/6/2021	<i>{Use this form for Finance Committee/ City Council agenda items ONLY}</i>	
Prepared By <i>{print name}</i>	Date	<b>CITY COUNCIL APPROVAL</b>  City Council <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px auto;"></div> Approval Date  Agenda Item #: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px auto;"></div>	Budget Officer
Division Director Signature <i>{optional}</i>	Date		Finance Director <i>{≤ \$5,000}</i>
Department Director Signature	Date		City Manager <i>{≤ \$60,000}</i>



# Memorandum



## Buckman Direct Diversion

**Date:** May 6, 2021  
**To:** Buckman Direct Diversion Board  
**From:** Mackie Romero, BDD Financial Temp  
**Subject:** 3rd Quarter Financial Report

---

### Information Item:

This report is to update the BDD Board and its partners on the 3<sup>rd</sup> Quarter financial position as of March 31, 2021.

**Budget Overview** – A financial plan that quantifies our current and future operations.

- Beginning Budget – FY2021 Adopted Budget includes any budget adjustments.
- Expended – Expenditures for services and/or goods received as of 03/31/2021.
- Encumbrances – Executed purchase orders for goods and services.
- Projected – Projected salary and benefits as currently staffed, pending requisitions and or contracts to be executed within the fiscal year.
- Available Balance – Represents vacancy savings and uncommitted budget balance.
- Percentage – Represents percentage of projected expended budget balance.

**90 Day Cash Reserve Credit** – Represents the partners cash reserve credit, which is used to fund current and future obligations as per the BDD Working Capital and Billing Policy.

**Partner Billing/Revenue** – Expenses billed to our partners for services and/or goods received as of March 31, 2021. Billing for project wide costs and variable cost have been allocated based on estimated water usage.

**Other Funds** - Major Repair & Replacement and Emergency Reserve Fund monthly contributions, cash balances and budget overview of funds authorized by the BDDDB for expenditure.

BDD will continue to provide quarterly updates with financial information to provide the highest level of transparency to our partners and the BDD Board.

If you require any additional information to be included in this report, please contact me.





# Buckman Direct Diversion

## 3<sup>rd</sup> Quarter Financial Statement – Operations (07/01/2020-03/31/2021)

### Budget Overview

CATEGORY	BEGINNING	EXPENDED	EXPENDED	EXPENDED	ENCUMB	PROJECTED	BALANCE	EXP	
	BUDGET	1st Quarter	2nd Quarter	3rd Quarter	as of 3/31/2021	Thru 6/30/2021			TOTAL
Employee Salaries & Benefits	2,250,596	493,659	529,945	578,775	-	559,694	2,162,073	88,523	96%
Electricity	1,167,463	228,687	232,047	261,682	-	270,574	992,990	174,473	85%
Chemicals	1,000,000	469,752	250,301	213,137	66,810	180,000	1,180,000	(180,000)	118%
Solids	336,000	140,146	58,756	50,659	-	86,439	336,000	-	100%
Materials & Supplies	63,219	17,921	19,412	18,980	-	6,906	63,219	-	100%
Other Operating Costs	563,150	110,207	90,697	64,362	150,605	-	415,871	147,279	74%
Litigation Costs	1,319,147	286,605	143,567	205,962	334,837	310,000	1,280,971	38,176	97%
Fiscal Agent Fees	2,000,000	499,979	446,050	411,260	642,711	-	2,000,000	-	100%
<b>TOTAL</b>	<b>9,031,934</b>	<b>2,246,956</b>	<b>1,770,775</b>	<b>1,804,817</b>	<b>1,194,963</b>	<b>1,745,972</b>	<b>8,763,483</b>	<b>268,451</b>	<b>97%</b>
DOE Federal Grant	96,000	-	-	6,573	89,427	-	96,000		100%

Total Expenses thru 3/31/2021

5,829,121

### 90-Day Cash Reserve Credit

	Balance
City of Santa Fe	1,497,413
Santa Fe County	500,115
LC - Club	76,028
LC - Coop	16,839
<b>Total</b>	<b>2,090,395</b>

### Partner Billing/Revenue – Operations

July - March	Total	1st & 2nd Quarter	Jan-21	21-Feb
<b>Partner Revenue</b>				
City of Santa Fe	3,667,825	2,863,764	355,631	448,429
Santa Fe County	1,219,590	960,661	115,187	143,742
LC - Club	111,562	92,137	8,890	10,535
LC - Coop	49,787	34,868	7,807	7,113
<b>Total</b>	<b>5,048,765</b>	<b>3,951,431</b>	<b>487,516</b>	<b>609,819</b>
March Expenses - Unbilled	<b>654,761</b>			
<b>Other Revenue</b>				
PNM Solar Rebate	119,022			
DOE Federal Grant	6,573			
<b>Total</b>	<b>125,595</b>			
<b>Grand Total</b>	<b>\$ 5,829,121</b>			



Buckman Direct Diversion 341 Caja del Rio Santa Fe, NM 87506



**3<sup>rd</sup> Quarter Financial Statement – Other Funds**  
**(07/01/2020-03/31/2021)**

**Pre-Bills – Major Repair & Replacement Fund (Yearly Contribution)**

	Total	City of SF	SF County	Las Campanas Coop	Las Campanas Club
Major Repair Fund	626,706	445,545	156,494	13,898	10,769
	<b>626,706</b>	445,545	156,494	13,898	10,769

**Financial Position - Cash**

	*Emergency Reserve	Major Repair
Balance at 06/30/2020	2,063,495	2,002,791
20/21 Yearly Contributions - Billed	-	626,706
<b>Total</b>	2,063,495	2,629,497
Less Beginning Budget		556,758
<b>Projected Cash Balance</b>		2,072,739

\* Emergency Reserve Fund has reached the funding target, per the established policy.

**Budget Overview – Major Repair and Replacement Fund**

CATEGORY	FY20/21 BUDGET	EXPENDED	EXPENDED	EXPENDED	ENCUMB	TOTAL	BALANCE
		1st Quarter	2nd Quarter	3rd Quarter	Thru 3/31/2021		AVAILABLE
Equipment & Machinery	263,563	-	-	199,456	64,107	263,563	-
System Equipment	293,195	-	-	99,464	193,731	293,195	-
<b>TOTAL</b>	<b>556,758</b>	-	-	<b>298,920</b>	<b>257,838</b>	<b>556,758</b>	-