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RECLAMATION

San Juan-Chama Project Overview & El Vado Update

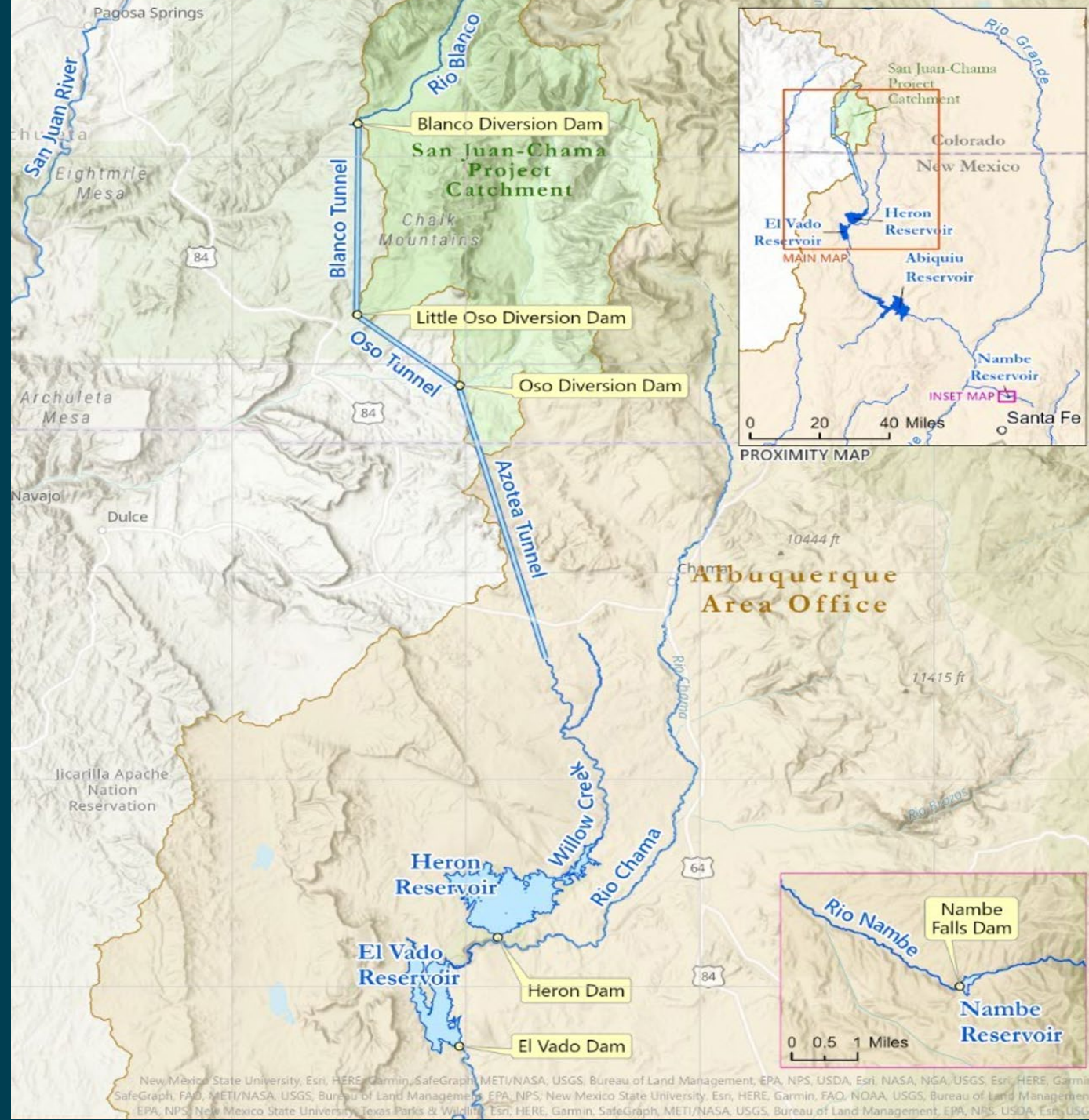
Water Leaders Workshop

May 23, 2024

~~Carolyn Donnelly~~ Jennifer Faler

San Juan-Chama Project Map

- Moves water from the San Juan River Basin (Colorado River Basin) to the Rio Grande Basin
- Includes Nambé Falls Dam on Rio Nambé
- New Mexico's share of Colorado River under Upper Colorado River Compact



San Juan-Chama Project

- Authorized by PL 87-483 in 1962; 2002 PL 111-11 discusses shortages
- Construction of transbasin facilities completed in 1971
- Operated and maintained by Bureau of Reclamation
- Project works include three diversion dams, three tunnels, Heron Dam and Reservoir, Nambé Falls Dam and Reservoir
- Provides water for municipal, industrial, domestic, recreation, and fish and wildlife purposes, as well as supplemental water for irrigation



San Juan-Chama Allocations

- 20 contractors – municipalities, irrigation districts, Pueblos and tribes
- A full annual allocation is 96,200 acre-ft
- Contractors share shortages proportionally
- First shortage was in 2014
- From 2014 to 2023, only three years have had full allocations

	Allocation acre-ft
0: Albuquerque	48,200
1: MRGCD	20,900
2: Jicarilla	6,500
3: SantaFeCity	5,230
4: SantaFeCounty	375
5: CochitiRecPool	4,290
6: LosAlamos	1,200
7: PVID	1,030
8: Espanola	1,000
9: Belen	500
10: Bernalillo	400
11: TownOfTaos	400
12: LosLunas	400
13: RedRiver	60
14: TaosSkiValley	15
15: OHKAYOwingeh	2,000
16: ElPrado	40
17: TownOfTaosSettlement	366
18: TaosPueblo	2,215
19: AamodtSettlement	1,079
SUM	96,200

Benefits of SJC Project and Water

- Supplemental irrigation supply (MRGCD, PVID)
- Allows groundwater users to offset Compact impacts to Rio Grande
 - ABCWUA and Santa Fe divert SJCP water; decreasing groundwater pumping
- Some SJ-C Project contractors lease water to 3rd parties
- Recreation and fish and wildlife benefits
 - ABCWUA, City of Santa Fe allow water to be reregulated on Rio Chama for rafting (summer) and brown trout (winter)
 - SJCP water makes up recreation pool in Cochiti Reservoir
 - Reclamation's leases water program for MRG ESA Compliance
- Indian water rights settlements have benefited from SJCP water



Questions?





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El Vado Dam

Safety of Dams Modification Project

Dam Safety Office and Albuquerque Office
August 2023

OVERVIEW

- Need For Action
- Current Project status
 - Changed Conditions
 - Contract MODs
 - Outlet Works Issues
- Grouting Issues
- Stop Work Order

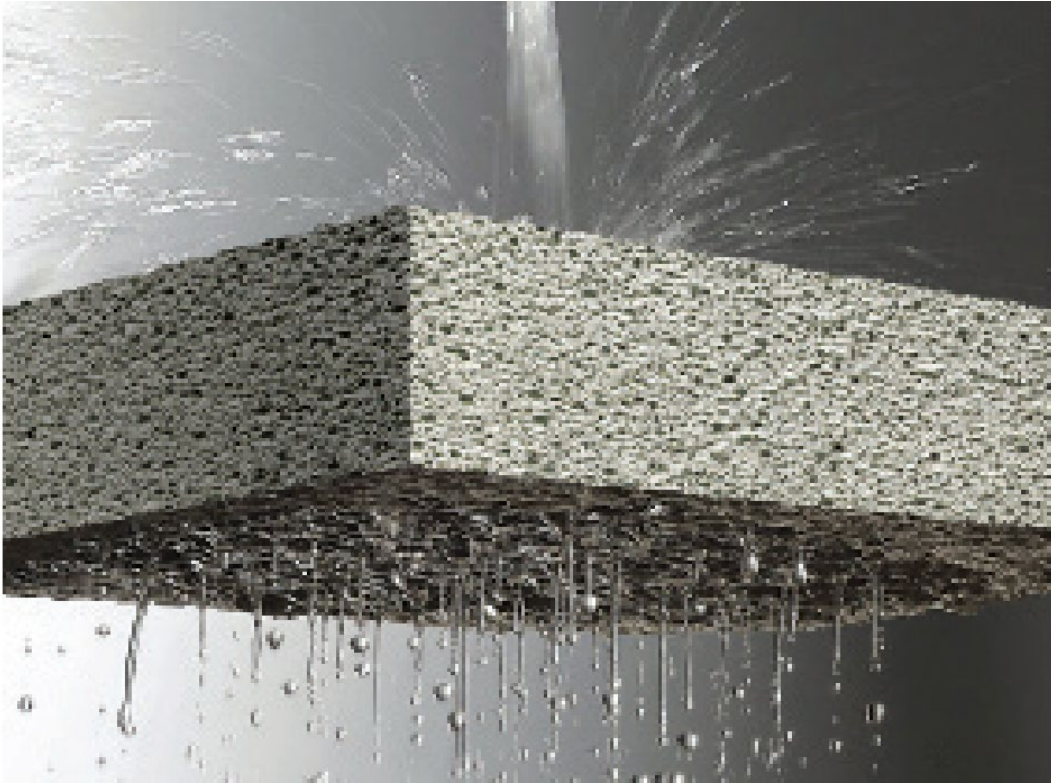


Backfill Grouting – Need for Change

- Bulging of the steel liner
- Apparent grout leakage



Backfill Grouting- Modification

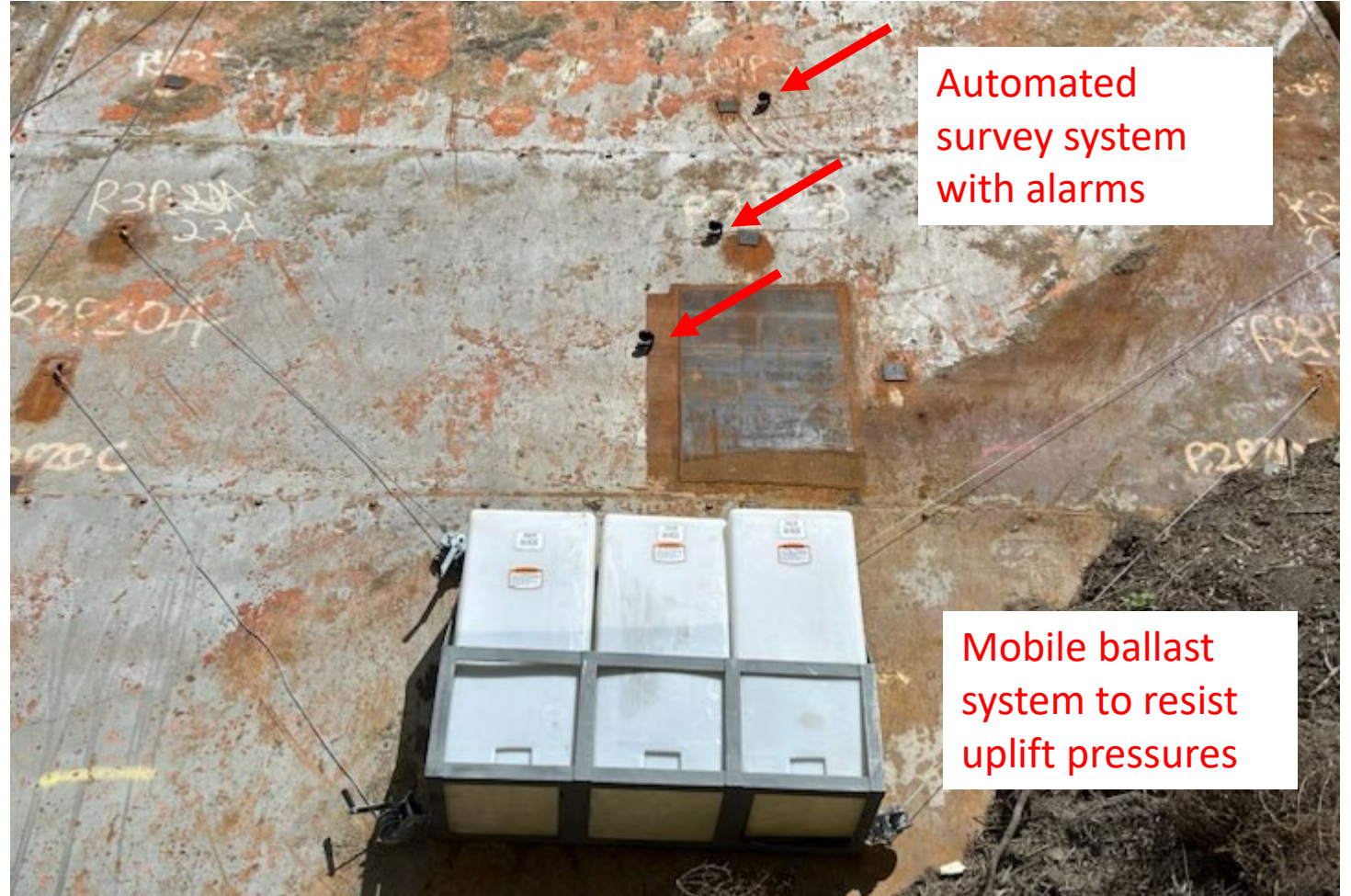


- Selected Permeable Low-Density Permeable Grout in cooperation with contractor
 - Reduces potential for faceplate bulging (wet unit weight 25 to 35 pcf)
 - Sufficient strength to support the lining system
 - Material is permeable (will not float lining system)



Backfill Grouting- Modification

- Allowed contractor to develop faceplate restraint and uplift monitoring systems.

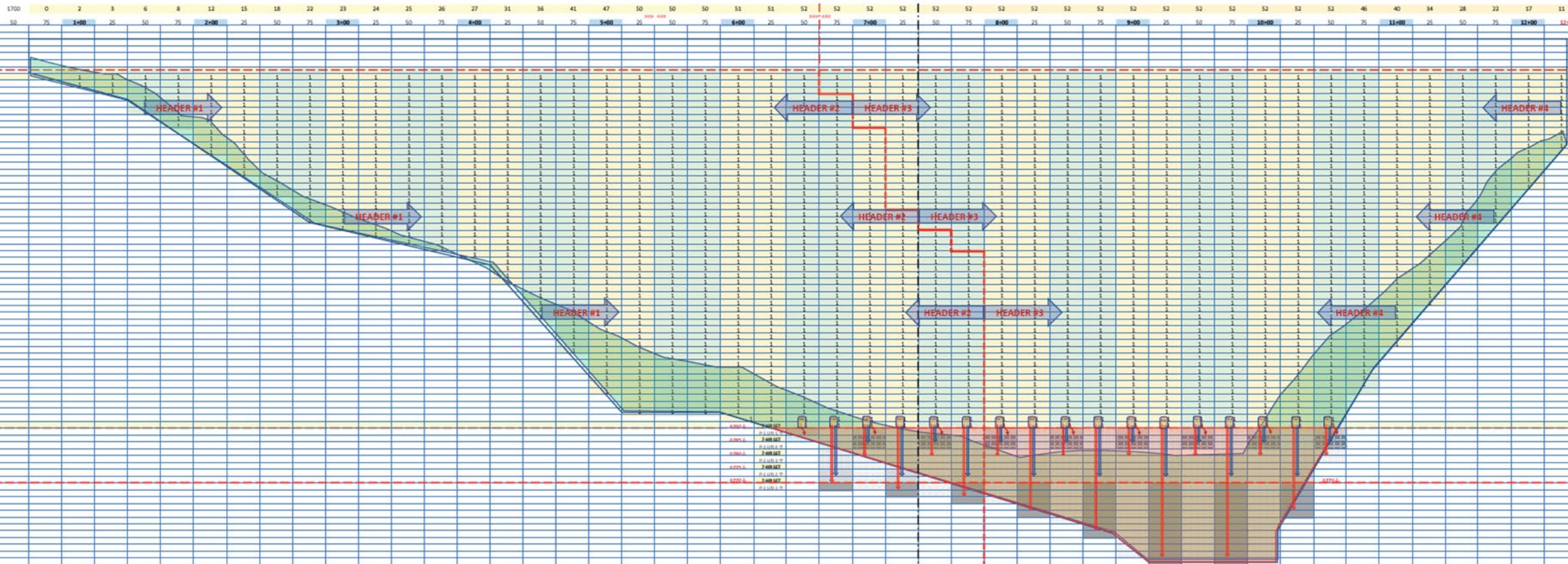


Contract Modifications

- Required changes include
 - Grout Cap / Foundation Grouting
 - Backfill Grouting
 - Contractor support for Drilling Pads (2022)
 - Contractor involved design –
 - Backfill grouting
 - Lab Trials and Scale Model
 - Foundation grouting design review
 - Undefined Contract Actions
 - Grout Cap
 - Backfill Grouting



Grouting Progress 2022 to 2023





Outlet Works Issues

- High Snowpack, High Spring snowmelt and runoff
- Debris in the Reservoir at intake Structure
- Mechanical Rumbling in Outlet Works



El Vado Construction- Alternative Storage in Abiquiu

- USACE updated Water Control Plan April 2024 allowing native storage in Abiquiu (previously only San Juan-Chama was allowed)
- Need to acquire storage space from the Albuquerque Bernalillo County Water Authority (ABCWUA)
 - Through 2024- Prior & Paramount approved and restricted to 20kaf
 - 2025 through construction- Reclamation negotiating for:
 - Unrestricted Prior & Paramount operations
 - Storage for Middle Rio Grande Conservancy District (negotiation range 100kaf-200kaf)
 - Exchanges of water in Abiquiu up to Heron (includes other SJC contractors) to open storage space for MRGCD
 - Will need USACE approval of final Abiquiu storage negotiated deal(s)



Questions!

