Restoration efforts in the Colorado River under Minute 323

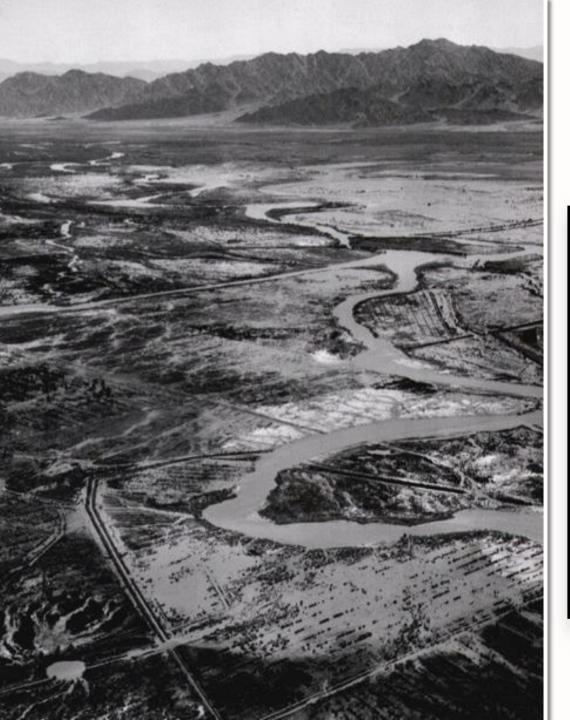
SONORAN

Francisco Zamora, Ph.D. Senior Director of Programs

IBWC Colorado River Citizens Forum May 17, 2023







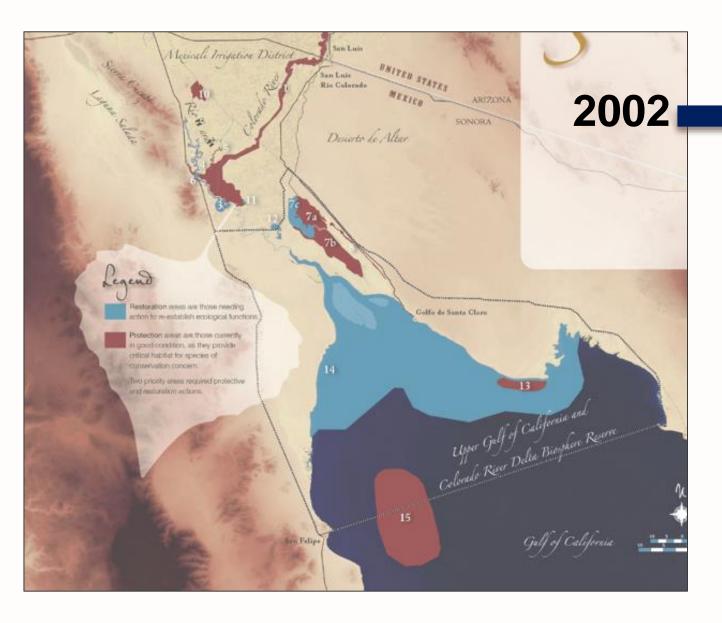
Historic Delta

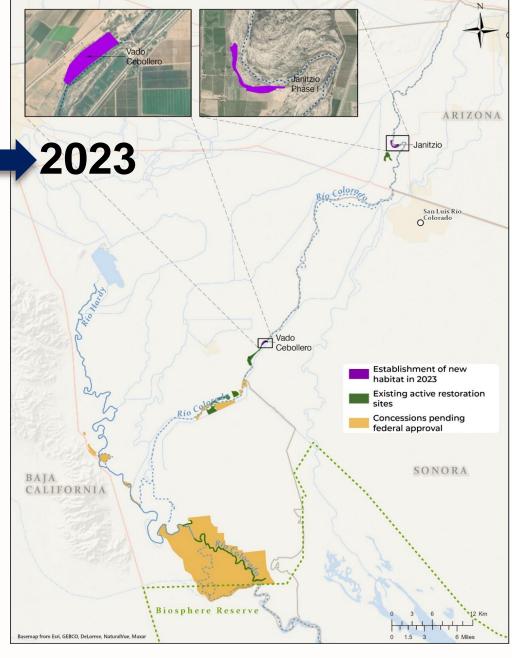


Images curtesy of IBWC



MAP OF THE POSSIBLE



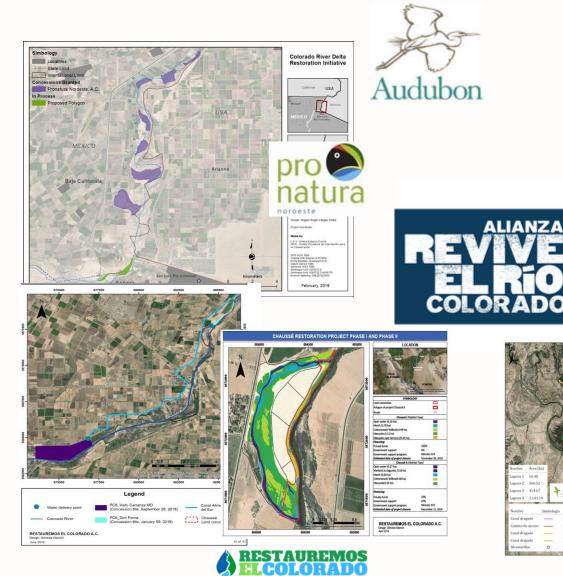


Ongoing restoration efforts

2017



Minute 323 Collaboration and vision











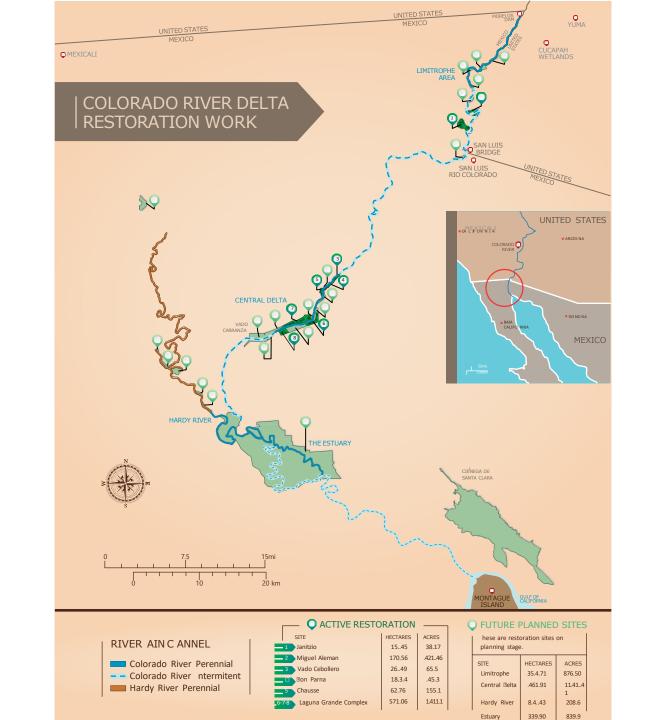


Active Restoration sites Minute 319 and 323 through 2022

Habitat Type	Miguel Aleman (PNO)		Laguna Grande (SI)		Chausse (RC)		Don Parna (RC)		TOTAL	
	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres	Hectares	Acres
Open water	0.00	0.00	9.50	23.47	10.00	24.70	1.16	2.87	20.66	51.03
Cottonwood / Willow	14.72	36.36	164.30	405.82	21.00	51.87	8.83	21.81	208.85	515.86
Mesquite Bosque	95.31	235.42	82.00	202.54	32.00	79.04	8.32	20.55	217.63	537.55
Upland	60.53	149.51	6.10	15.07	0.00	0.00	0.00	0.00	66.63	164.58
Total	170.56	421.28	261.90	646.89	63.00	155.61	18.31	45.23	513.77	1,269.01

New sites in 2023:

- Janitzio (37 acres)
- Vado Cebollero (35 acres)



COLORADO RIVER DELTA RESTORATION WORK



LOWER RESTORATION





RIVER MAIN CHANNEL

- Colorado River Perennial
 Colorado River ntermitent
- Hardy River Perennial

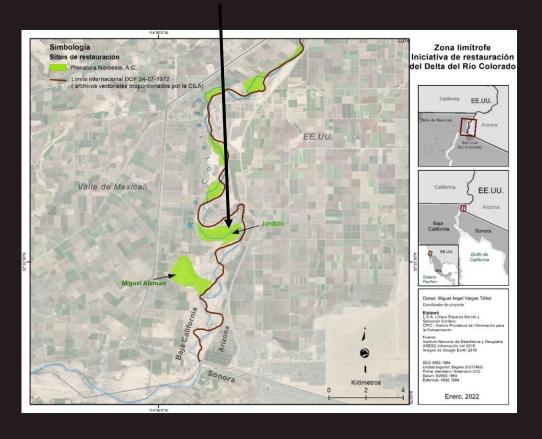
PLANNED SITES

These are restoration sites on planning stage.

• ACTIVE RESTORATION

— OACTIVE RESTORATION ——							
SITE	HECTARES	ACRES					
1 Janitzio	1545	38.17					
2 Miguel Aleman	170.56	.42146					
─_ 3 Vado Cebollero	2649	65.5					
4 Don Parna	18.3.4	.45.3					
— 5 Chausse	62.76	155.1					
-6-7-8 Laguna Grande Complex	571.06	1411.1					

Janitzio



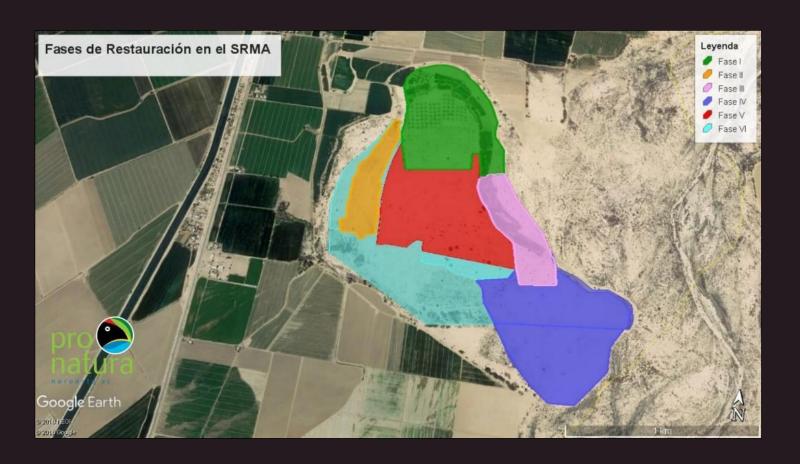
The total area of the Janitzio site is 378 acres of which 346 acres are available and planned for restoration.

37.43 acres targeted in 2023



Miguel Aleman

421 acres completed

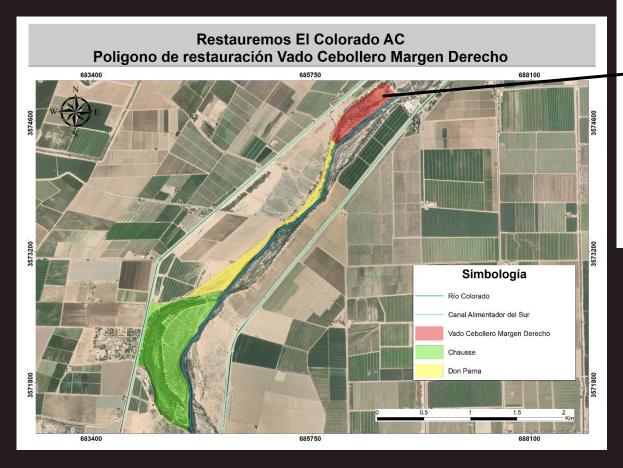


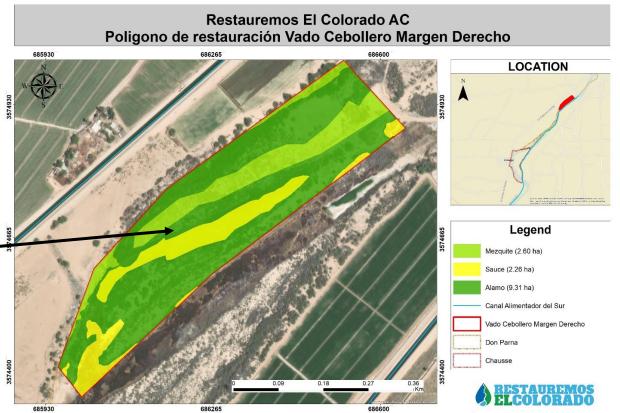




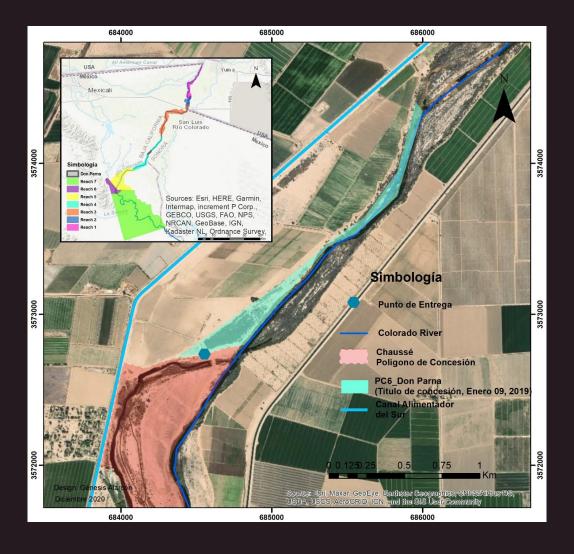
Currently implementing maintenance activities

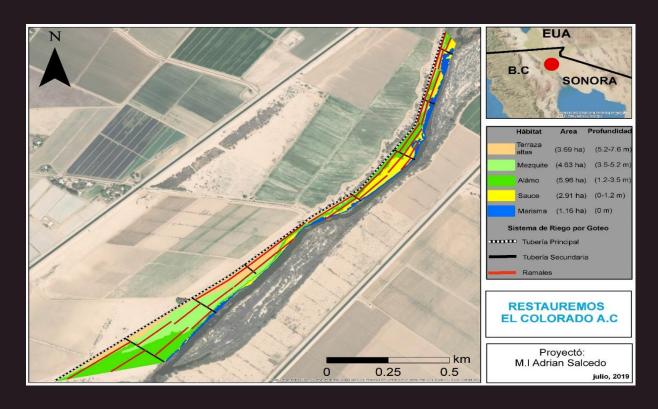
Vado Cebollero 35 acres targeted in 2023



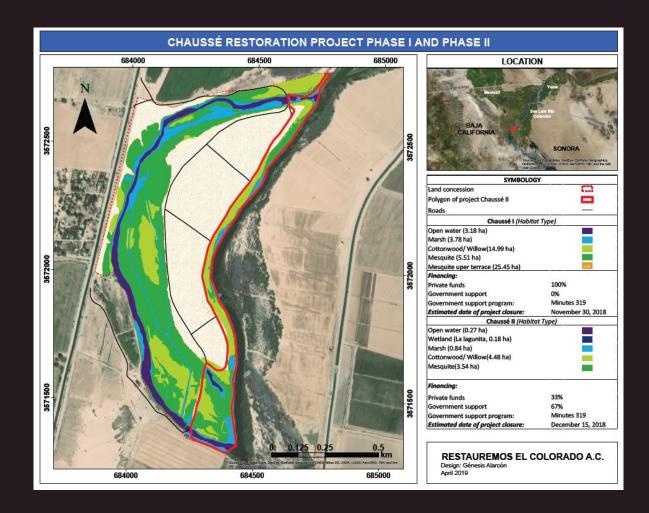


Don Parna 45 acres





Chausse 154 acres completed





Tree production



Maintenance activities

Laguna Grande 647 acres completed





Laguna Grande















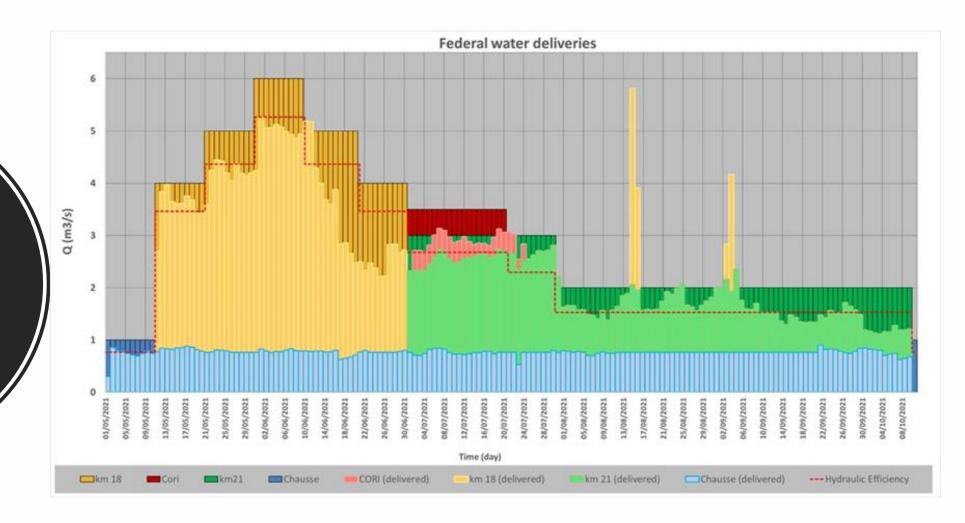


DMS-20 Lagoon 1 RHDO6 Lagoon 2 Lagoon 3 Water delivery sites Streams Water quality sites Earth levee Lagoons ^~, 2021 Overflow area 2019 Riparian corridor 2018 Reach 4 . 2016 I Reach 5 I Reach 7

In-channel flows 2021 and 2022

- Total volume: 35,000 af of water each year
- May 1st to October
- 3-4 delivery points
- Extensive monitoring field work

IN-CHANNEL FLOWS IN 2021 AS PART OF MINUTE 323







WATER ARRIVING AT VADO CARRANZA









THANK YOU!

You are invited to be part of the restoration...!!

