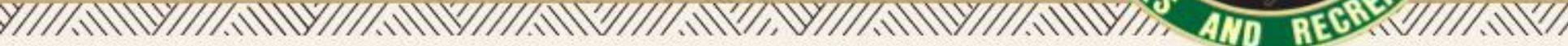


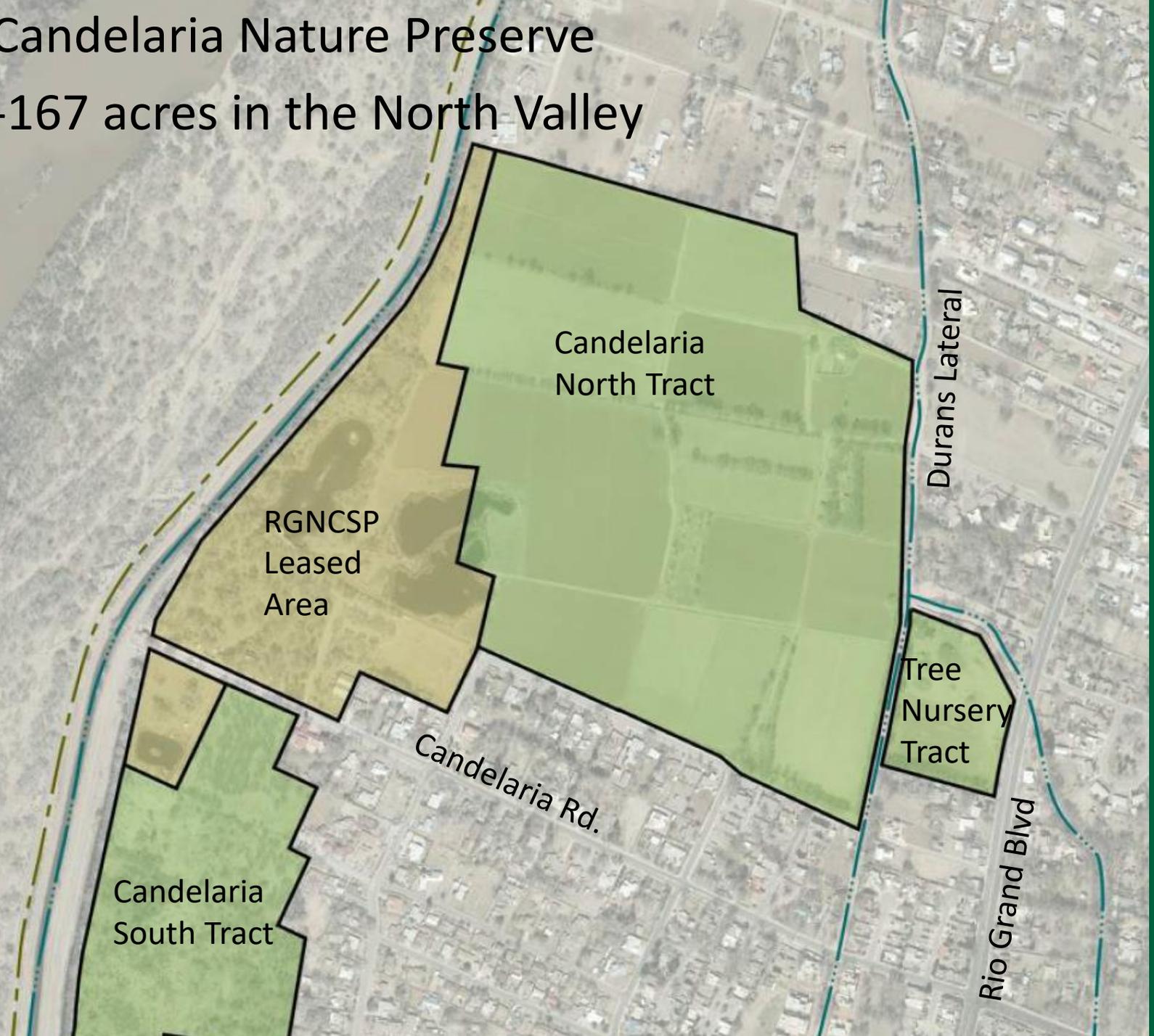
Candelaria Nature Preserve Annual Presentation



**ONE
ALBUQUE
RQUE** parks & recreation

Candelaria Nature Preserve

-167 acres in the North Valley



Candelaria
North Tract

RGNCSP
Leased
Area

Candelaria
South Tract

Tree
Nursery
Tract

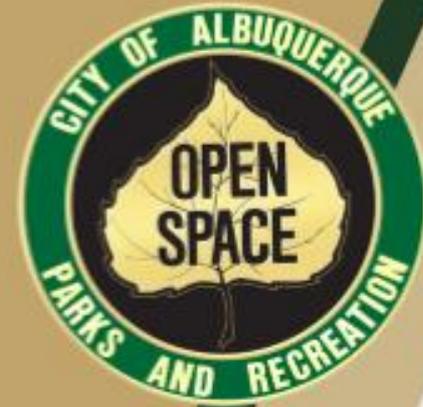
Candelaria Rd.

Durans Lateral

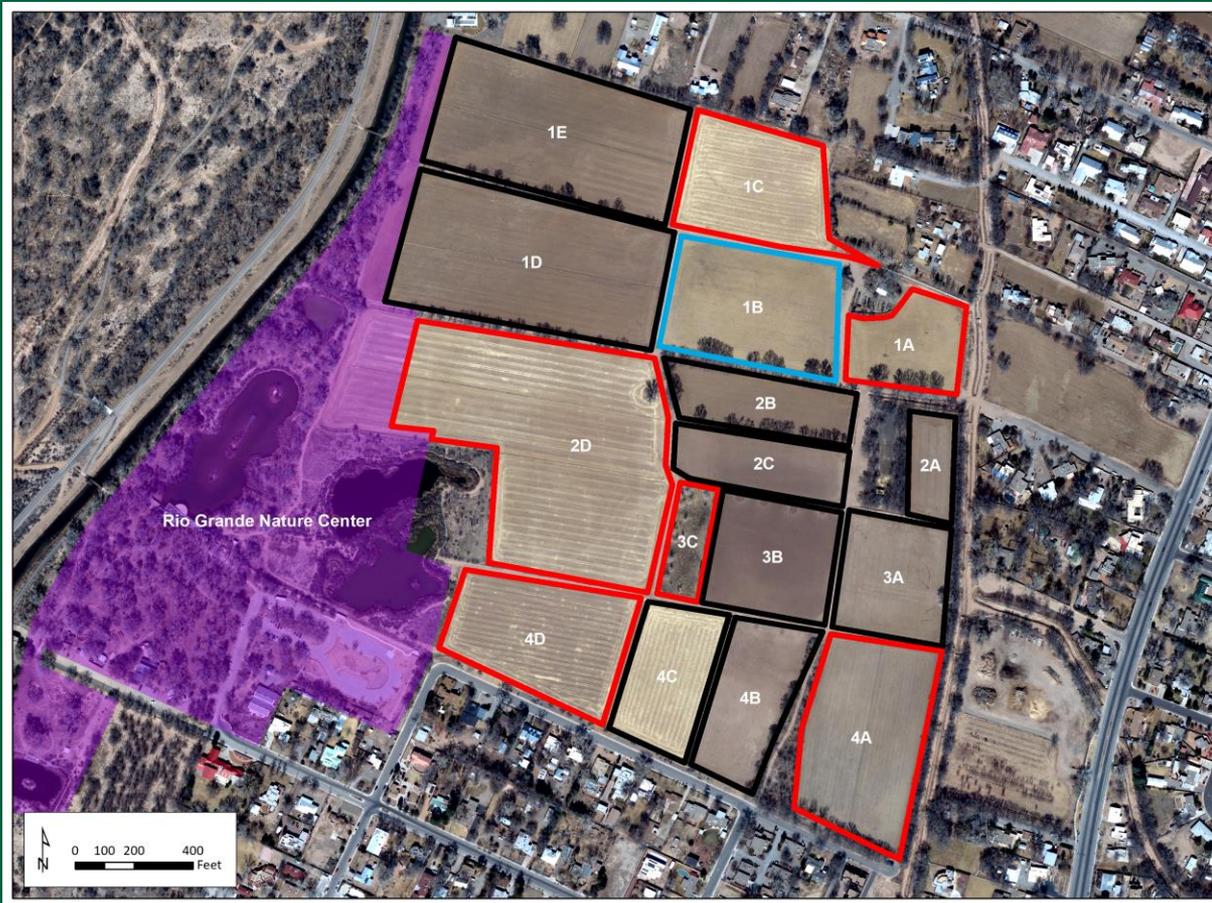
Rio Grand Blvd

2020 Accomplishments

- Farming
 - JT Farms
 - Aquatic Consultants
- Wetlands
- Monitoring
- Habitat Council
- Integrated Pest Management Plan



CNT: Farming Activities



Approximate acreage per field Wildlife cropping and habitat areas appear in red (see detailed crop plan attached)

- 1A: 2.85 acres
- 1B: 5.51 acres
- 1C: 4.9 acres
- 1D: 9.13 acres
- 1E: 8.17 acres
- 2A: 1.45 acres
- 2B: 2.7 acres
- 2C: 2.7 acres
- 2D: 13.26 acres
- 3A: 3.73 acres
- 3B: 3.91 acres
- 3C: 1.43 acres
- 4A: 6.26 acres
- 4B: 3.87 acres
- 4C: 3.27 acres
- 4D: 5.3 acres

Total farmable acreage: 78.18
Designated wildlife cropping and habitat areas: 39.51(approximately 50.5% of total farmable acreage)

Wetland Conceptual Design



CNT: Monitoring and Restoration

Quadrant Survey

On October 30, 2020 and November 2nd, 2020 vegetation surveys were undertaken. Utilizing previous aerial maps, knowledge of farming history, and soil surveys done by the US Department of Agriculture, and Natural Resources Conservation Service in 2019, 13 sites were selected. A 1m² quadrat was placed within the middle of these sites to determine species cover percentage and dominant plant species. A visual inspection was done of each of the sites to identify any additional plant species.

Soil Seed Bank

Fifteen small (40g) soil samples were taken in a random distribution at each of the 13 sites. The 15 samples were then mixed together, and the process was repeated at each of the sites. The samples were sent to a soil seed bank analysis lab at Oregon State University.

Photo Points

Eleven photos points throughout the CNT looking over each farm field plot. Monitoring happening on an annual basis in the summer.

Work at Candelaria

November 9th – 13th and December 2 - 5th 4 Ancestral Lands crew members mechanically cleared invasive weeds from the drains and planted 50 native shrubs (willow, wolfberry, golden current) along the drains

Habitat Council

Support for Valle de Oro National Wildlife Refuge, Whitfield Conservation Area and Candelaria Nature Preserve. Will provide technical, expert advise on weed management, monitoring, public outreach, habitat plans, wildlife crops, Integrated Pest Management plan, climate change factors, and research projects

Group includes the following:

- Ciudad Soil and Water Conservation District
- Valencia Soil and Water Conservation District
- US Fish and Wildlife Service
- New Mexico State University
- New Mexico Department of Game and Fish
- Natural Resources Conservation Service
- CABQ BioPark, Heritage Garden
- Rio Grande Return
- Habitat Farm Collective
- Audubon New Mexico



IPM Planning

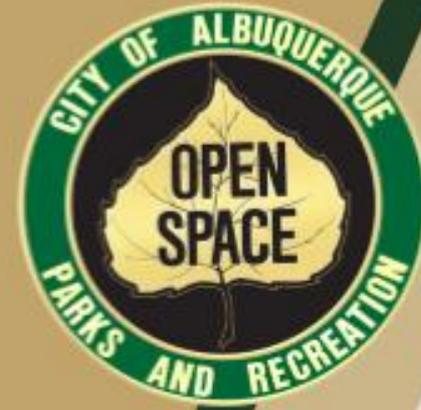


The Integrated Pest Management plan will include the following:

- Comprehensive approach to protect desired species from non-native invasive species thru prevention and treatment.
- Site inventory and monitoring schedule
- Framework to prioritize thresholds
- Guidelines on staff training on prevention, detection, and appropriate techniques
- Control techniques that are appropriate and accountable to thresholds
- Guidelines for collaboration and with public and stakeholders to increase public awareness and understanding of invasive species and IPM approaches
- Protocols for informing public, especially neighboring residents, about all methods used to manage weeds, including the use of herbicide
- Revegetation with native species
- Monitor protocols of control techniques
- Measurable objectives so results are held accountable
- Framework that is adaptable as new information, tools, threats, and climate changes over time.
- Mitigation protocols for non-target impacts from control methods such as those on soil, water, wildlife, cultural, and human impacts.
- Prevention practices for further spread and reinvasion.

2021 Activities

- Contract
 - Aquatic Consultants & Ciudad Soil and Water Conservation District
- Monitoring & Education
 - Bosque Ecosystem Monitoring Program and Rapid Assessments, Citizen Science Monitoring, Monthly Tours
- Habitat Council
 - Quarterly Meetings and Site Visits
- Friends Group
 - MOA
- Planning efforts
 - Wildlife Viewing Areas
 - Tree Nursery Tract



Planning: Wildlife Viewing Areas

Week of March 8th, 2021

Conduct an on-line public meeting to present the concept plans

Week of March 29th, 2021

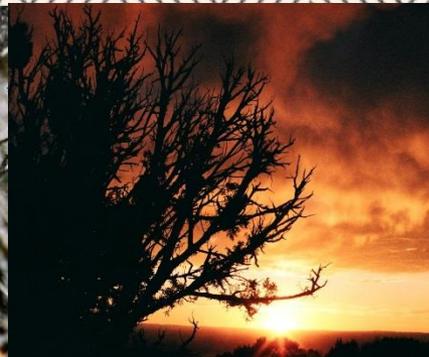
Compile public comments & prepare schematic design plans

Week of April 5th, 2021

Present the final schematic designs to the public

May 12th, 2021

Preparation of construction documents Complete



RMP Approval Process

Candelaria Nature Preserve Budget

Revenue Type	Year	Amount	Expenditures	Vendor	Purpose
<u>Capital Funds</u>					
State Capital Outlay Grants	2019	300,000			
			\$228,492.20	Aquatic Consultants Contract	Habitat restoration and planning
			\$71,507.80	Franklins Earth Movers	Wildlife Blind Construction
State Capital Outlay Grants	2019	110,000			
			\$110,000	MRWM/Franklins	Planning: Tree Nursery Tract, Wildlife Blinds and Viewing Platform
State Capital Outlay Grants	2021	\$275,000			Heavy equipment, fencing materials, and complete wetland design
Total Capital Funds		\$685,000	\$410,000		
<u>O & M Funds</u>					
General Fund	FY21	108,000			\$68,000 for Biologist Position plus \$40,000 for farming contract, and management including monitoring and soil amendments
			\$74,000	Ciudad Soil and Water Conservation District	
Total Operation and Management Funds		\$108,000	\$74,000		

RMP Approval Process

- Environmental Planning Commission
EPC recommended the RMP be approved by City Council in January 2021 meeting
- City Council
The RMP will be reviewed by City Council next
- National Park Service
The RMP will be reviewed by the NPS for LWCF compliance



<https://www.cabq.gov/candelaria-nature-preserve>