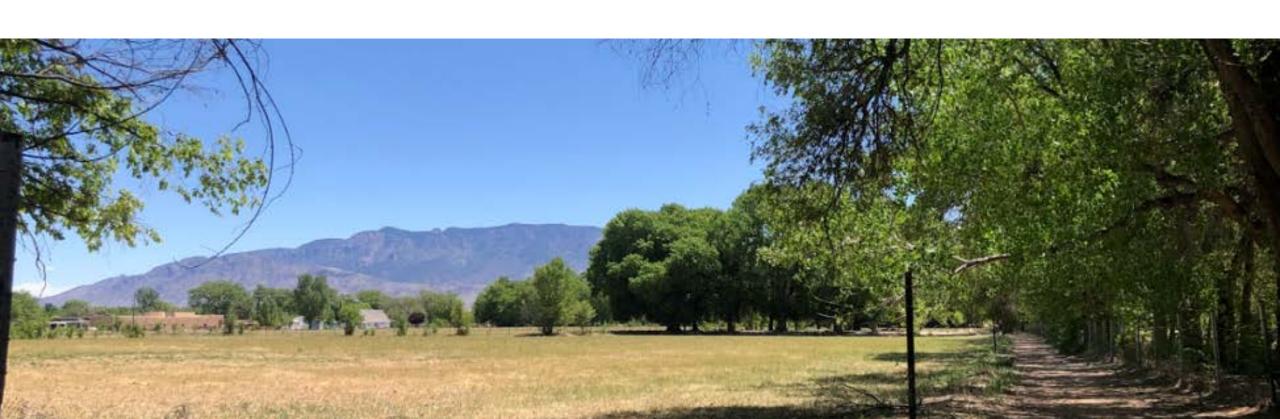


TONIGHT'S TOPICS

- Update on the 2022 Fallowing Program
- Actions to date by VLR Farm Team
- Overview of SW Soil Health Farm Plan
- MRGCD Conservation Loan Program
- Next steps



WHY MRGCD'S FALLOWING PROGRAM FIT FOR 2022

POOR IRRIGATION SEASON FORECAST

Given the lower-than-normal snowpack and no storage at El Vado due to construction, MRGCD forecasted a shortened irrigation season for farmers. In April, the irrigation season began in the ABQ Division with water deliveries only estimated until mid-June.

LETTING SOILS REST IS REGENERATIVE AG

Allowing fields to rest after 15+ years of use and production is a form of regenerative ag practiced by farmers large and small for centuries.

CONSIDERABLE IRRIGATION INFRASTRUCTURE DEFICIENCIES IDENTIFIED

On May 5th, the VLR Farm Team and MRGCD staff toured the property and identified several instances of inefficient water use per MRGCD's Water Distribution Policy.

MEET THE VLR FARM TEAM









JACOBO SANCHEZ
Farmer/SW Soil Health
LLC

O'HALLORAN

VLR Agricultural Program

Manager

JOSHUA

Public Facilities Manager

KEEN HEINZELMAN

ANN SIMON

VLR Administrator



PHOTOS FROM MAY 5TH WALK-THROUGH

9:00 am — 10:30 am In Attendance: VLR Farm Team, MRGCD ISOs, and Conservation Program Staff







PHOTOS FROM MAY 5TH WALK-THROUGH

9:00 am - 10:30 am

In Attendance: VLR Farm Team, MRGCD ISOs, and Conservation Program Staff

PESTS

 Alfalfa weevil along Western end of Exhibit 2

- Mistletoe infestation throughout overstocked Siberian elm canopy
- Salt cedars in Exhibit 4

FAILED STRUCTURES

- Undersized turnouts and eroded earthen ditches
- Failed CMP/culverts leading to head cuts on fields and wildlife areas

OPPORTUNITIES
FOR
IMPROVEMENT

- Reduce soil and water erosion events
- Remove failed structures and safety hazards
- Improve irrigation efficiency for improved soil, crop, and cottonwood health







ACTIONS TO DATE

ENROLLED IN MRGCD'S EMERGENCY FALLOWING PROGRAM

Given property conditions and irrigation forecast, the VLR opted to fallow this irrigation season, leveraging fallow payment for on-farm improvements.

ATTEMPTED TO PLANT 2 AC. FIELD

San Isidro weekend, 1 ac. of sunflower planted, only ¾ ac watered in 12 hrs. ABQ Main currently running 10% of normal CFS. Field improvements are needed.

FUNDING FOR INFRASTRUCTURE IMPROVEMENTS SECURED

Pursuing MRGCD Conservation Loan Program to address irrigation efficiency improvements.

CREATED COTTONWOOD TREE MANAGEMENT PLAN

Weekly visits to monitor cottonwoods with backup watering plan established for any cottonwoods that experience stress during prolonged drought.

OUR VISION

Paseo del Norte Open Space Farm Plan and Timeline-SW Soil Health

Updated plan to include 2022 Fallowing Year and 5 year lease from January 2023 to December 2027

Phase 1	Phase 2 Year 2 Activity & Outcomes List of activities	Phase 3 Year 3 Activity & Outcomes List of activities	Phase 4 Year 4 Activity & Outcomes List of activities	Phase 5 Year 5 Activity & Outcomes	Pİ	nase 6	Para I			1	
Year 1 Activity & Outcomes						ear 6 & Outcomes	1				
List of activities					List o	f activities	The same of				
Coordinate planning with Village on infrastructure needs, facilities improvements, debris removal, and estimated costs and fimelines.	Maintain coordination and communication with the Village on farm plan activities. Installation of new irrigation infrastructure complete.	Assess farm plan practices and effectiveness of infrastructure imrovements		Work with Village on developing a educational materials and fact sheets on sthe progress of the farm plan during year 4 and 5. Evaluate the plan.	educational ma on the progre	age on developing terials and foot sheets as of the farm plan and 5. Evaluate the		(Accord			
Communicate with MRGCD ISO to identify fields that are not seeking I ac/hour water delivery requirement prior to infigation eation. Pursue cost-share funding opportunities to improve on- farm efficiencies.	Install and equip properties with soit- moisture and crop production equipment to monitor improvements.	Re-set and re-seeding of irrigated croplands to support the integration of livestock for reduced filinge and residue management			livestock	Year 1 Outcomes Title	Year 2 Outcomes Title	Year 3 Outcomes Title	Year 4 Outcomes Title	Year 5 Outcomes Title	Year 5 Outcomes Title
						List of Outcomes	List of Outcomes	List of Outcomes	List of Outcomes	List of Outcomes	List of Outcomes
Signage installation of new farm management plan and activities on properties	projects that support farm plan activities.	projects that support farm plan activities.		Identify community service learning projects that support form plan activities. Implement projects with partner and community involvement.		Spring 2022, coordinated planning with Village on infrastructures. Spring 2022, coordinated planning with Village on infrastructures. Costs and finellines. Previous tenant vacated property after 4 planting to the deadline, delaying start to farm management and operations.	Maintain clear lines of communication	Maintain clear lines of communication and expectations of the properties. Provides opportunity for adaptive management,	beginning farmers understand the inputs timelines and planning required for soil	Develops educational materials that help beginning farmers understand the input timelines and planning required for soil restoration and production ag in whon settings.	experiences, and data for years 1-5 the plan into a case study for urbar
Soil rest and regeneration via fallowing	Utilize upgraded inigation infrastructure and soil-moisture monitoring system to demonstration soil regeneration via interseeding, cover cropping, incorporating green matter into soil, reduced-hilage, and residue management of farmed lands	Establish cover crop and forage crop demonstration trials and research	Harvest 50% of seeded grass fields for na production. Donate 1 cow to community for meat to low income families		grass. Harvest		Integration of measurement to inform	to implementation of hay and livestock	r. Informs BMPs of rotational grazing of imgated posture in the Widdle Valley. Conduct on-farm research with forage specialists.	imgated pasture in the Middle Valley.	environmental, to determine
Wildlife nabitat assessment and inventory. Address stormwater/irigation runoff and easement maintenace along wildlife coordors. Cottonwood inventory and monitoring.	Monitorstormwater/irrigation runoff structures and easement maintenace along wildlife cooridors.	Integrate small ungulates, temporary grazing poddocks to forage grass and weeds in wildlife areas, stoodoost native grasses and forbs that support poilinators	pollinator practices	Continue farming for wildlife and pollinator practices and evaluate effectiveness.	Continue fan poliinator pra effs	Utifized MRGCD's Emergency Following Program to allow for fields to rest after years of continuous production and poor water forecast. Funds from following program used towards identified imgation infrastructure and maintenance needs. Secured funding opportunities to improve on form efficiencied through MRGCD is win-frients thom program. Undergrand imfigration pipeline scheduled for Winter 2022 installation to support cover crop demonstration trials and seed collection.	Drovida annual conceturities for	Provide annual opportunities for community learning and development	Provides annual opportunities for community learning and development	Provides annual opportunities for community learning and development	Evaluate educational worknops an community service learning projects imfor future partnerships.
8/22/2022						Working with VLR Agriculture Farm Manager on supplemental cottonwood water monitoring, Pranted 2pc. of sunflowers to support wildow.		Implements adaptive wildlife management planning into agroecosystems	Implements adaptive wildlife management planning into agroecosystems	Implements adaptive wildlife management planning into agroecosystems	Evaluate years 1-5 of the wildlife management plan

ELEMENTS OF SW SOIL HEALTH'S PASEO DEL NORTE FARM PLAN



COOPERATION

Between VLR, MRGCD, and easement partners to achieve shared goals



RESTORATION

Of existing cottonwood/wildlife areas and irrigation systems through measured planning and implementation



CONSERVATION

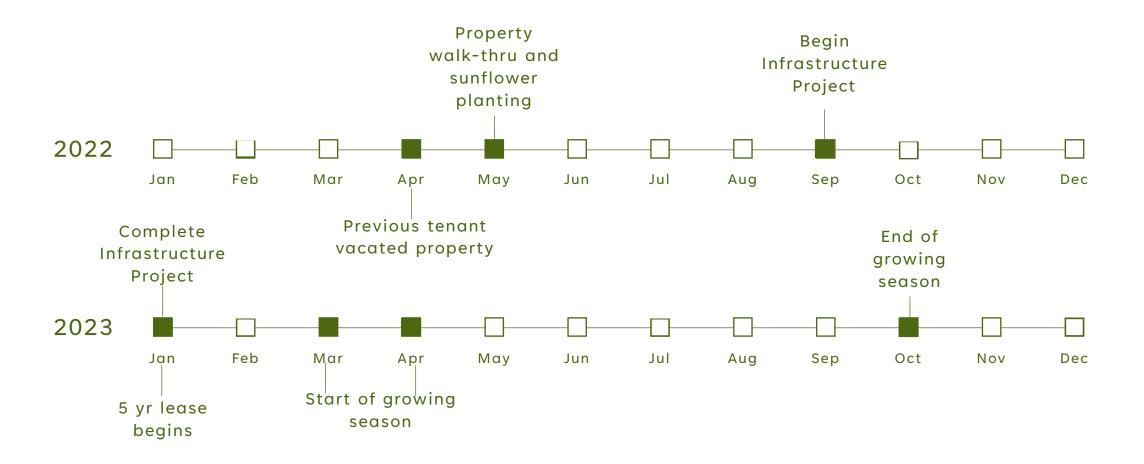
Of Village natural resources and agricultural legacy



EDUCATION

And on-farm demonstrations of proven practices for healthy soils, plants, animals, and communities

2-YEAR ACTION PLAN



POTENTIAL FUNDING OPPORTUNITIES FOR INFRASTRUCTURE AND CONSERVATION



MRGCD CONSERVATION LOAN PROGRAM

Revenue obtained from online campaigns and door-to-door sales

USDA FINANCIAL ASSISTANCE

Establish a USDA farm and tract # to be eligible for on-farm improvements, stewardship payments, and more

STATE/LOCAL SOIL AND WATER FUNDING

Annual grants for sustainable ag/soil health/conservation

NMDA HEALTHY SOIL GRANTS

Support on-going cover crop trials







PILOT PROGRAM

MRGCD is currently piloting a new loan program to help irrigators with conservation projects.

LOW INTEREST

Interest rates dependent on borrower and loan amount. Most projects estimated to be <5% for 20 years.

PRACTICES THIS LOAN WILL COVER

- Turnouts
- Stormwater catchments/ bioswales
- Land leveling
- Irrigation pipeline
- Invasive tree removal
- Concrete removal
- Fencing for rotational grazing
- Soil moisture sensor installation

Current: 20 hrs

Exhibit 1

Proposed: 16 hrs



Legend:



Turnout

Irrigation pipeline



Alfalfa valve



Livestock drinker



Current infrastructure



Current

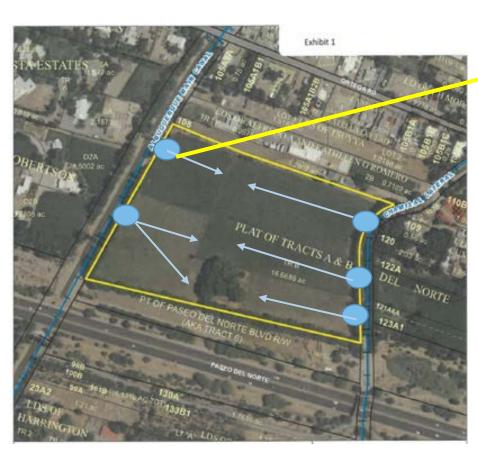


Exhibit 1

Legend:



Turnout

Irrigation pipeline



Alfalfa valve



Livestock drinker



Current: 48+ hrs Exhibits 2, 4, 5, & 6 Proposed: 24 hrs



Legend:



Turnout

Irrigation pipeline



Alfalfa valve



Stormwater structure/ bioswale, wildlife habitat



Current: 48+ hrs

Exhibits 2, 4, 5, & 6

Current



Legend:



Turnout

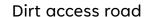
Irrigation pipeline



Alfalfa valve



Stormwater structure/ bioswale, wildlife habitat







Current: 8-12 hrs

Exhibit 3 PLAT OF TRACTS A & B Exhibit 3

Legend:



Turnout

Irrigation pipeline



Alfalfa valve



Re-set turnout for farm delivery pad/irrigation pipeline

Dirt access road

Proposed: 3 hrs



Current

Exhibits 2, 4, 5, & 6

Current



Legend:



Irrigation pipeline



Alfalfa valve



Stormwater structure/ bioswale, wildlife habitat



ACRES AND CONSERVATION PRACTICES IMPLEMENTED THROUGH PROPOSED INFRASTRUCTURE IMPROVEMENTS IN THE FIRST 5 YEARS

26.9 AC.

3.6 AC.

16 AC.

(9) 2-ac. cover crop plots for soil regeneration, research, and seed production

Exhibit: 2, 4, 5, & 6

Wildlife/Stormwater Mgmt

Exhibits: 3 & 4

Rotational grazing, cover crops, and forage production

Exhibits: 1



SUMMARY

Through a collaborative approach to conservation, SW Soil Health LLC and the Village of Los Ranchos are developing water-smart planning and implementation strategies to ensure the continued production and agricultural legacy of the Paseo del Norte Open Space for generations to come.



THANK YOU

Jacobo Sanchez

505-553-5749

jacobo@swsoilhealth.com

