



# CLARK COUNTY RIPARIAN RESERVE UNITS

**AUGUST 2026**



MOJAVEMAX.COM



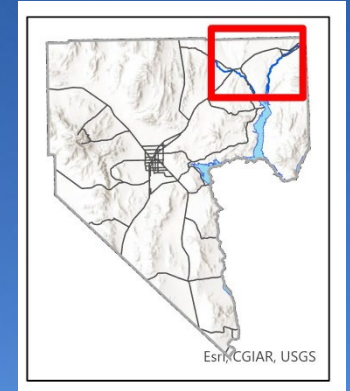
desert conservation  
PROGRAM

# OVERVIEW



The Riparian Reserve Units were established to preserve existing desert riparian habitat and restore or enhance potential habitat within the Muddy and Virgin River watersheds.

DCP is responsible for the maintenance and restoration of these lands that have been established for the conservation of species covered by the MSHCP.



- **PROPERTY ACQUISITION**
- **RESTORATION**
- **MANAGEMENT**



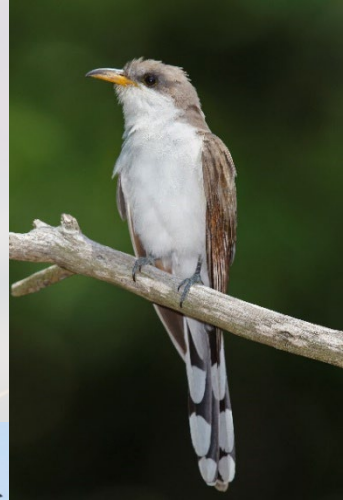
# RIPARIAN RESERVES

## Section 10 Incidental Take Permit Condition

- Requires DCP acquire private lands in desert riparian habitats along the Muddy and Virgin rivers (and Meadow Valley Wash) to conserve habitat for riparian birds covered by the MSHCP.

Southwestern Willow Flycatcher  
Yellow-billed Cuckoo  
Arizona Bell's Vireo

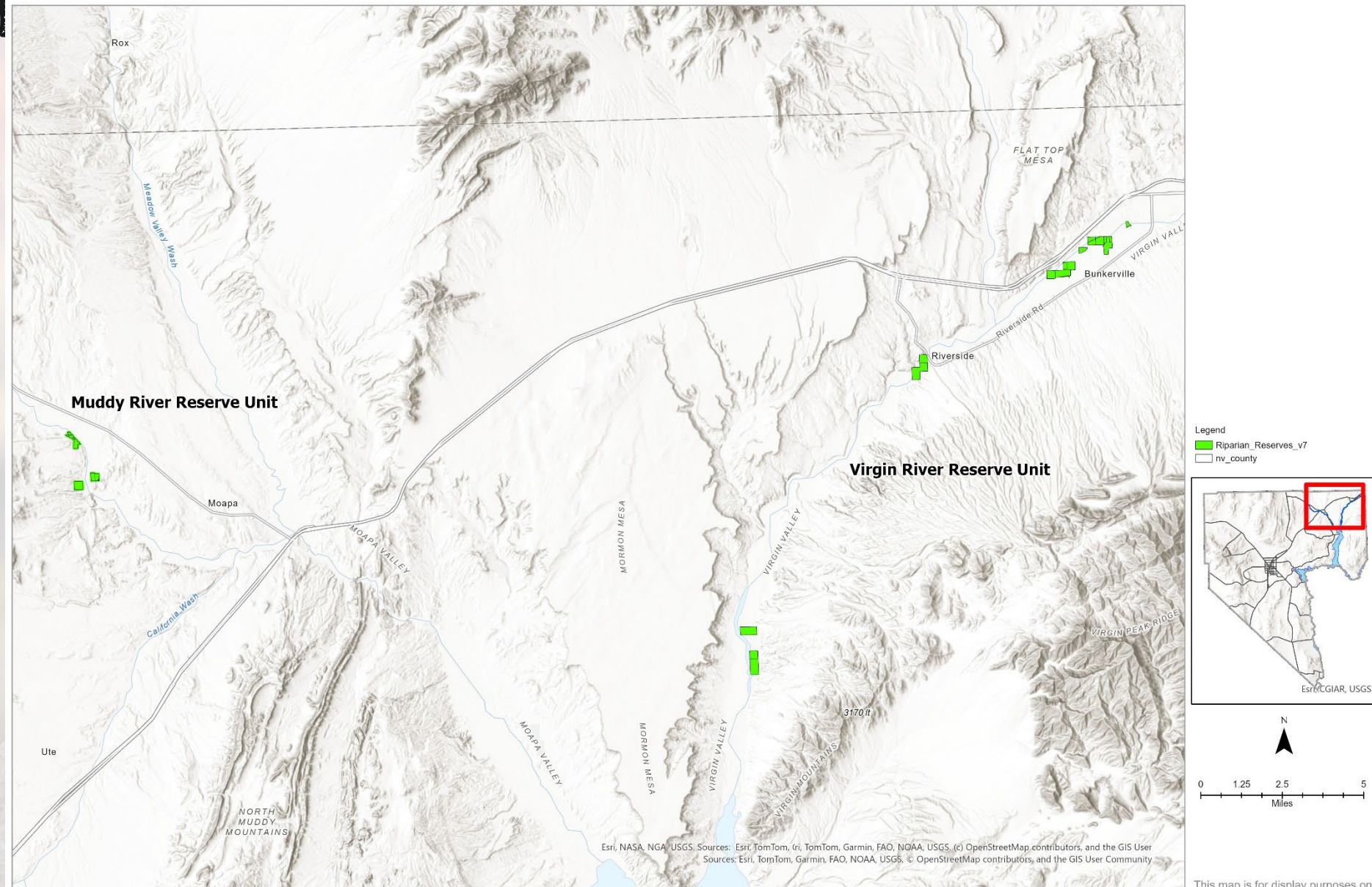
Vermilion Flycatcher  
Summer Tanager  
Blue Grosbeak



# RIPARIAN RESERVES - OVERVIEW



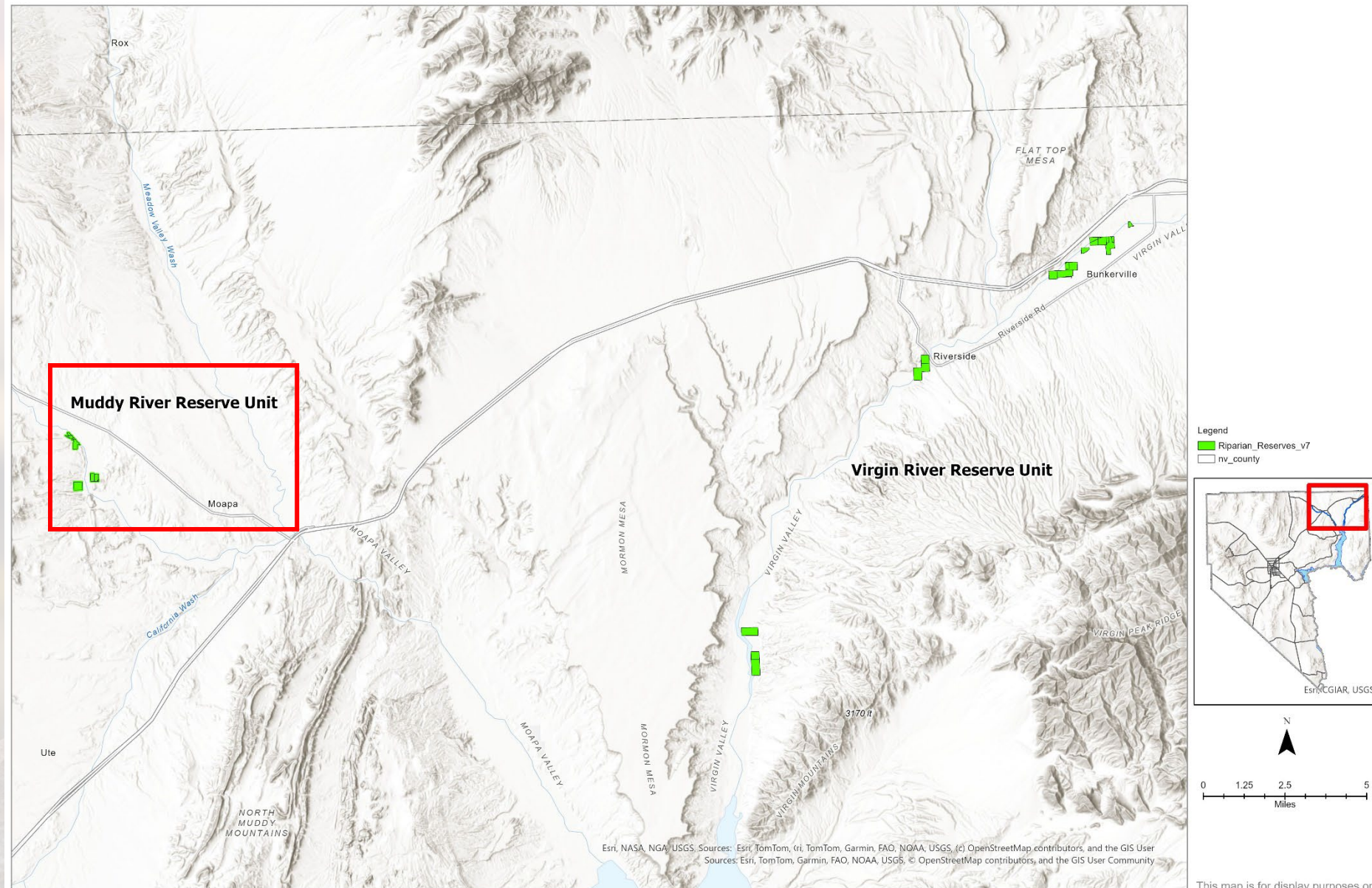
Overview of  
DCP properties  
along the  
Muddy and  
Virgin Rivers



# RIPARIAN RESERVES



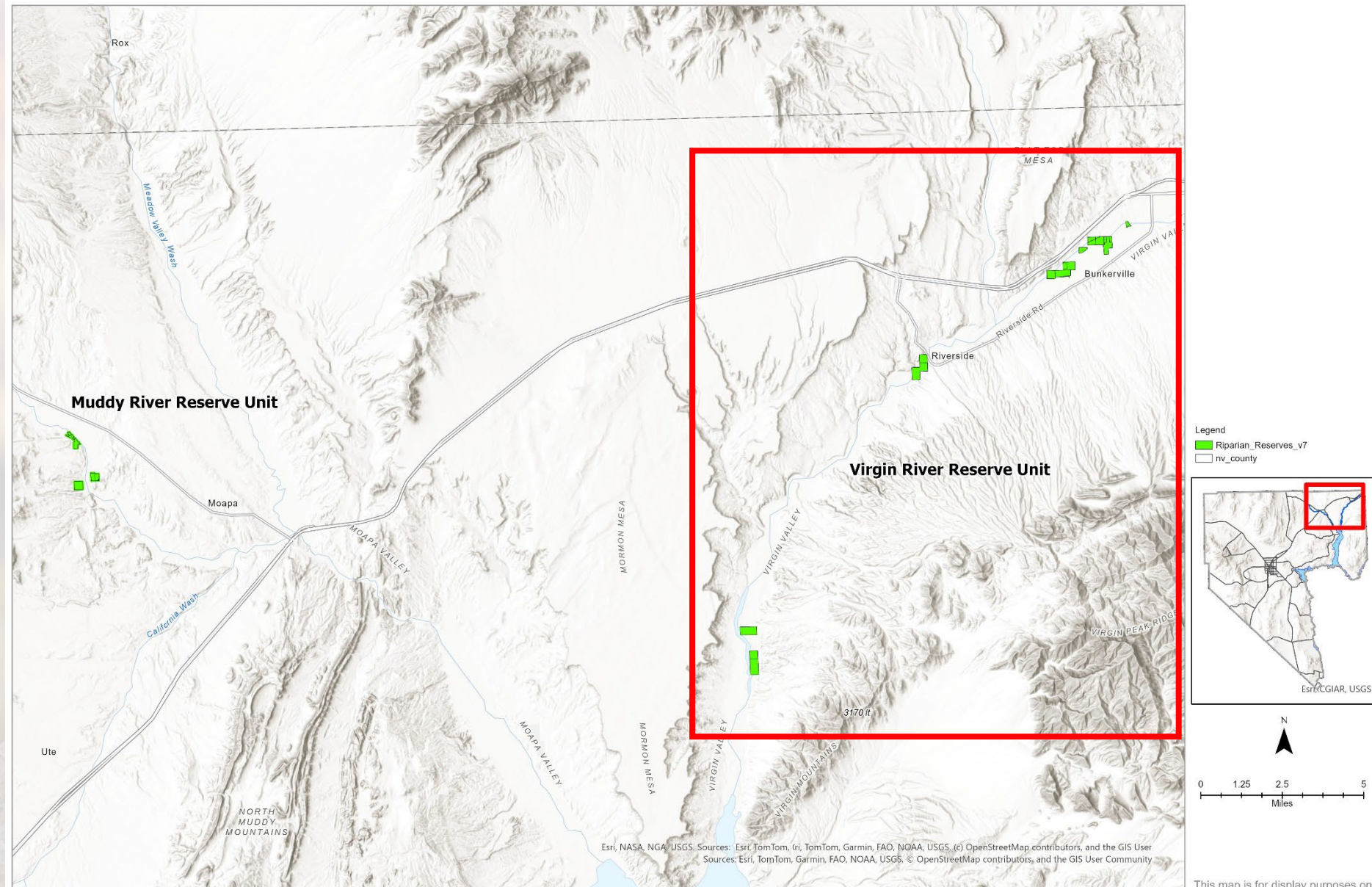
Muddy River Reserve Unit - comprised of 9 parcels totaling 116 acres along the Muddy River.



# RIPARIAN RESERVES

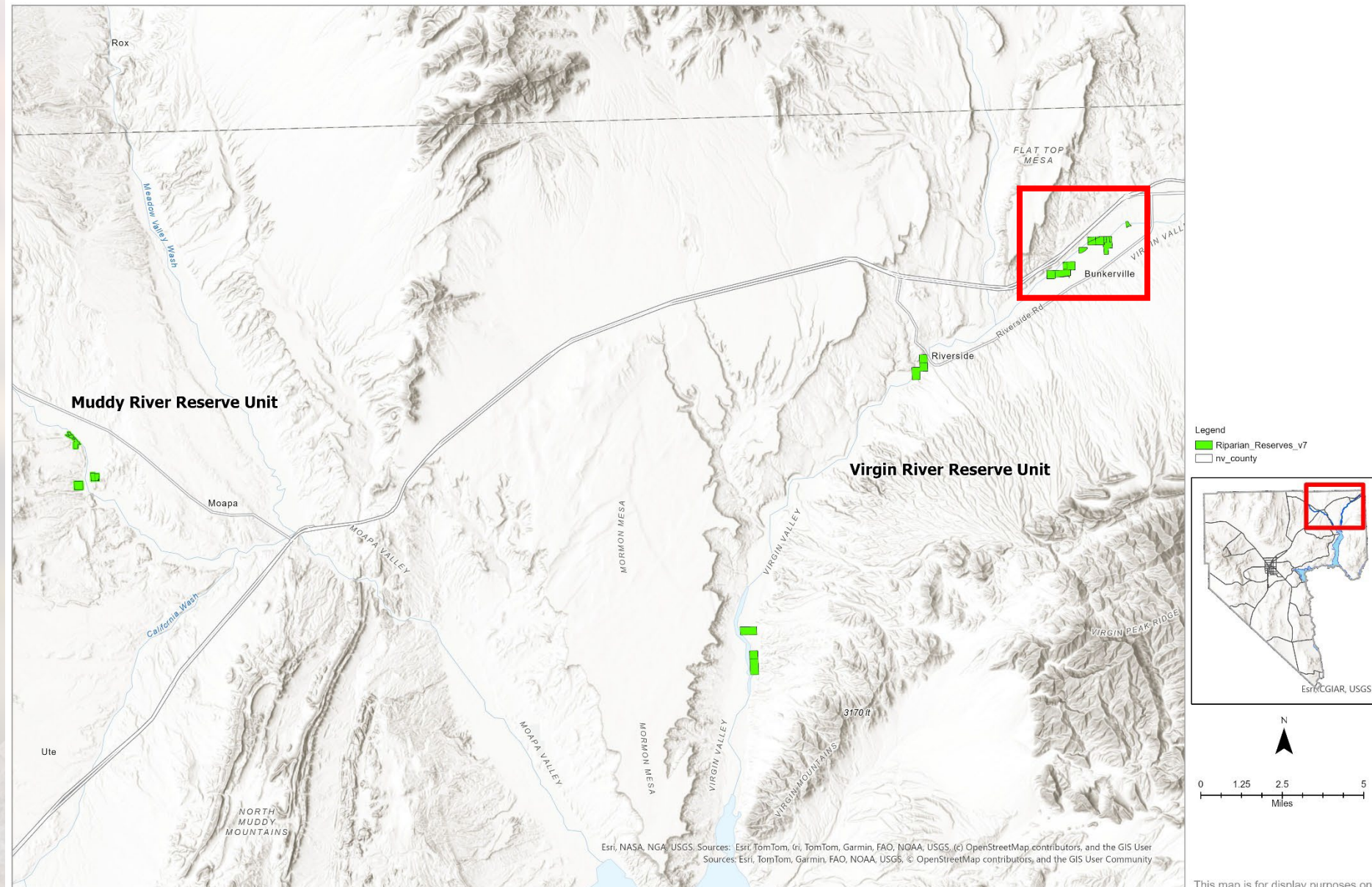
Virgin River  
Reserve - total  
of 686 acres.

518 acres have  
been added to  
the Virgin River  
Reserve since  
2017.



# RIPARIAN RESERVES

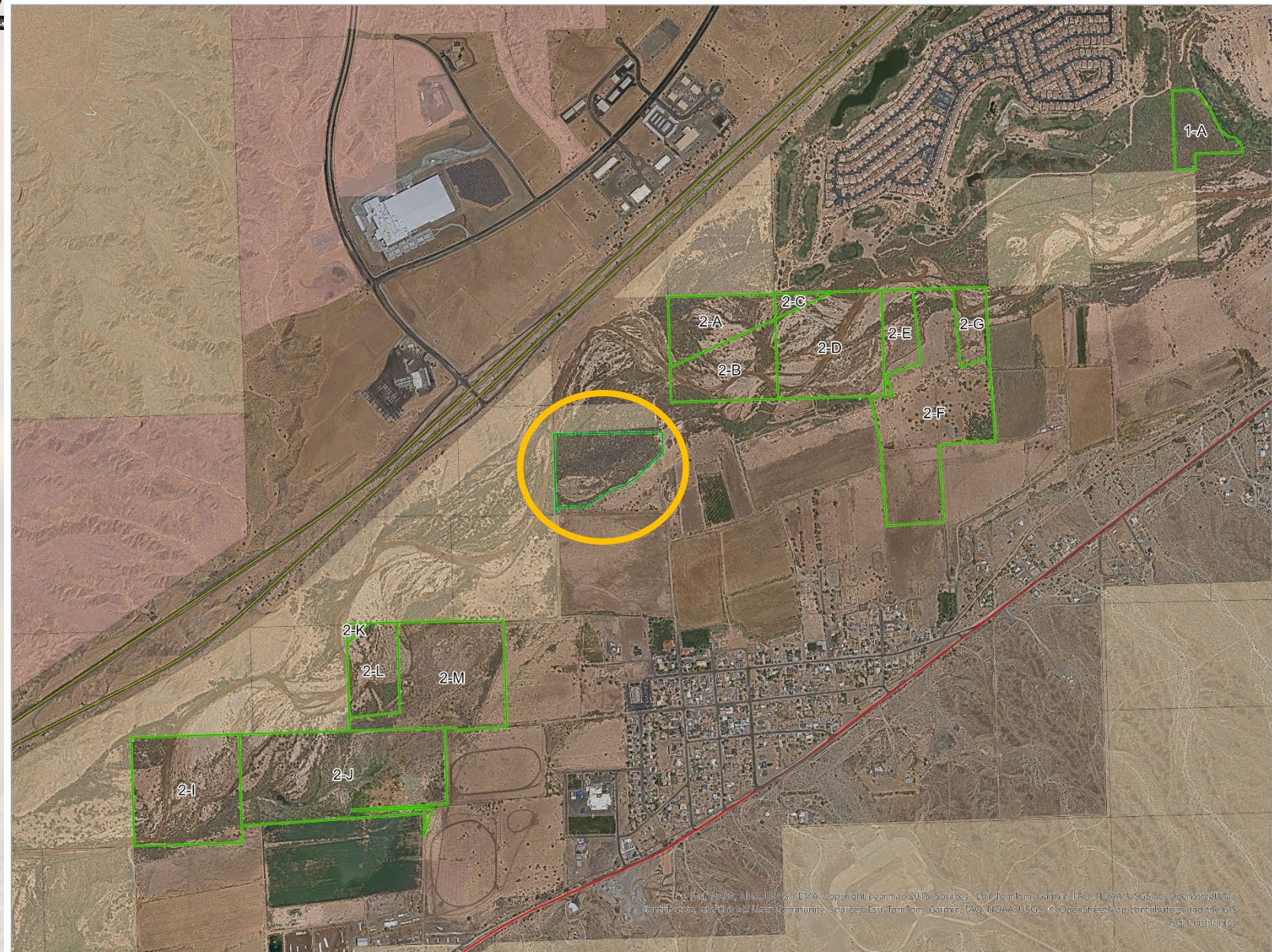
Latest addition to the reserve system is a Conservation Easement on the Virgin River totaling 21.4 acres that was finalized in January 2026.



# VIRGIN RIVER - CONSERVATION PLACEMENT



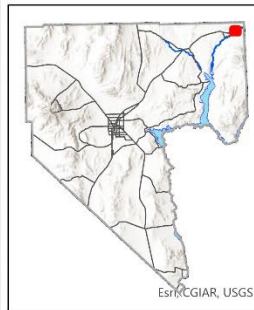
Property identified as a priority for acquisition since it was one of the last SWFL occupied habitat.



Virgin River Reserve Unit

Legend

- LegalDescription\_ConsEsmt
- LegalDescription\_ConsEsmt
- Riparian\_Reserves\_v7
- nv\_county
- AOParcel
- Surface\_Management\_Agency
- BLM
- Clark County
- Mesquite
- Private



0 0.1 0.2 0.4  
Miles

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This map is for display purposes only.



# OVERVIEW



## PROPERTY ACQUISITION ➤ RESTORATION MANAGEMENT



# RESTORATION: SCREWBEAN MESQUITE



Expanded on monitoring and research funded by USFWS to identify disease-resistant genotypes.



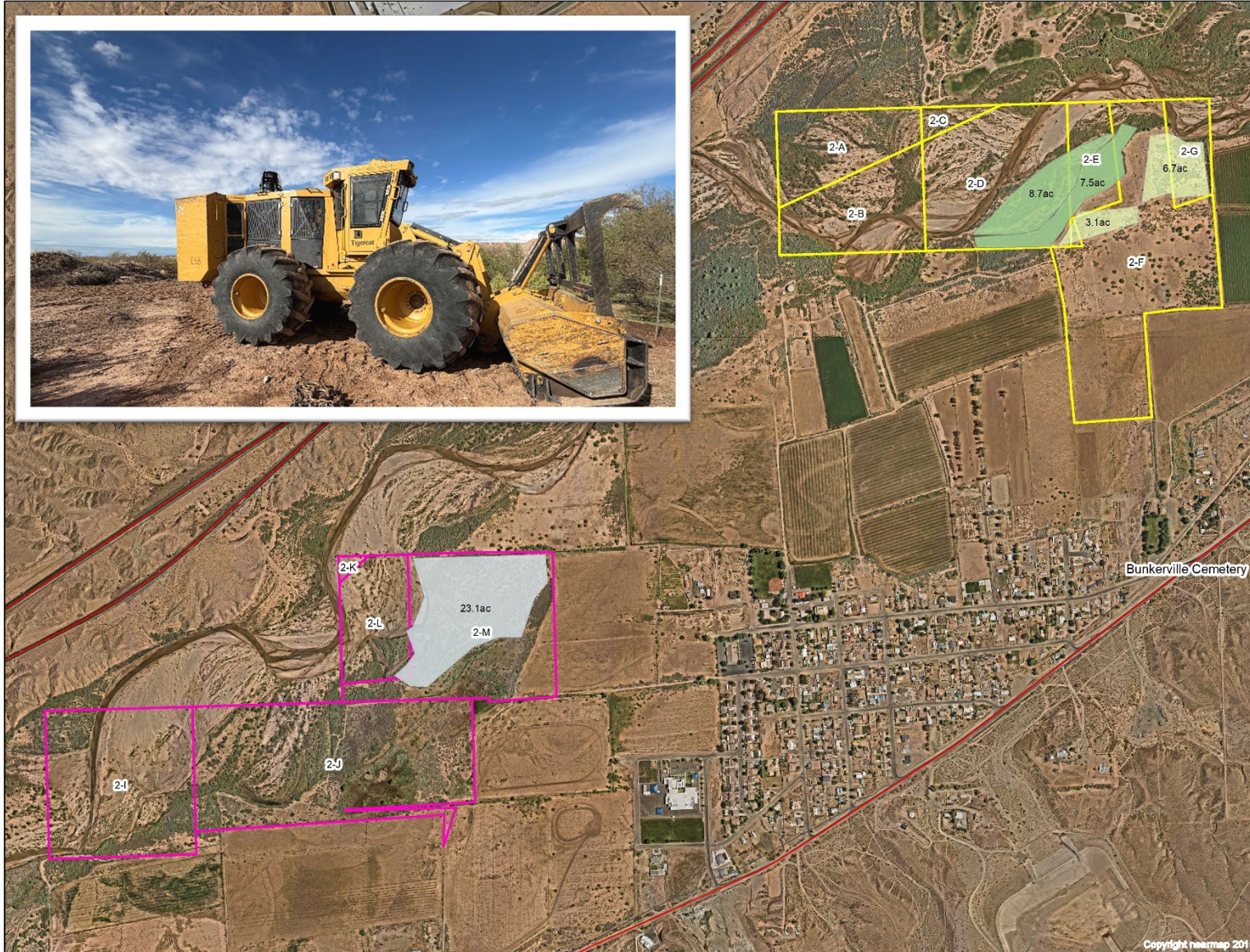
Ecoculture collected seeds from healthy individuals in diseased populations.

Common gardens established at DCP property in Bunkerville West and Mormon Mesa.

# RESTORATION:

## BUNKERVILLE MASTICATION

### Tamarisk Treatment Locations



~50 acres  
masticated at  
Bunkerville West  
and East parcels  
last November 2025.

# RESTORATION:

# BLINKERVILLE MASTICATION



# RESTORATION:

## BLINKERVILLE MASTICATION

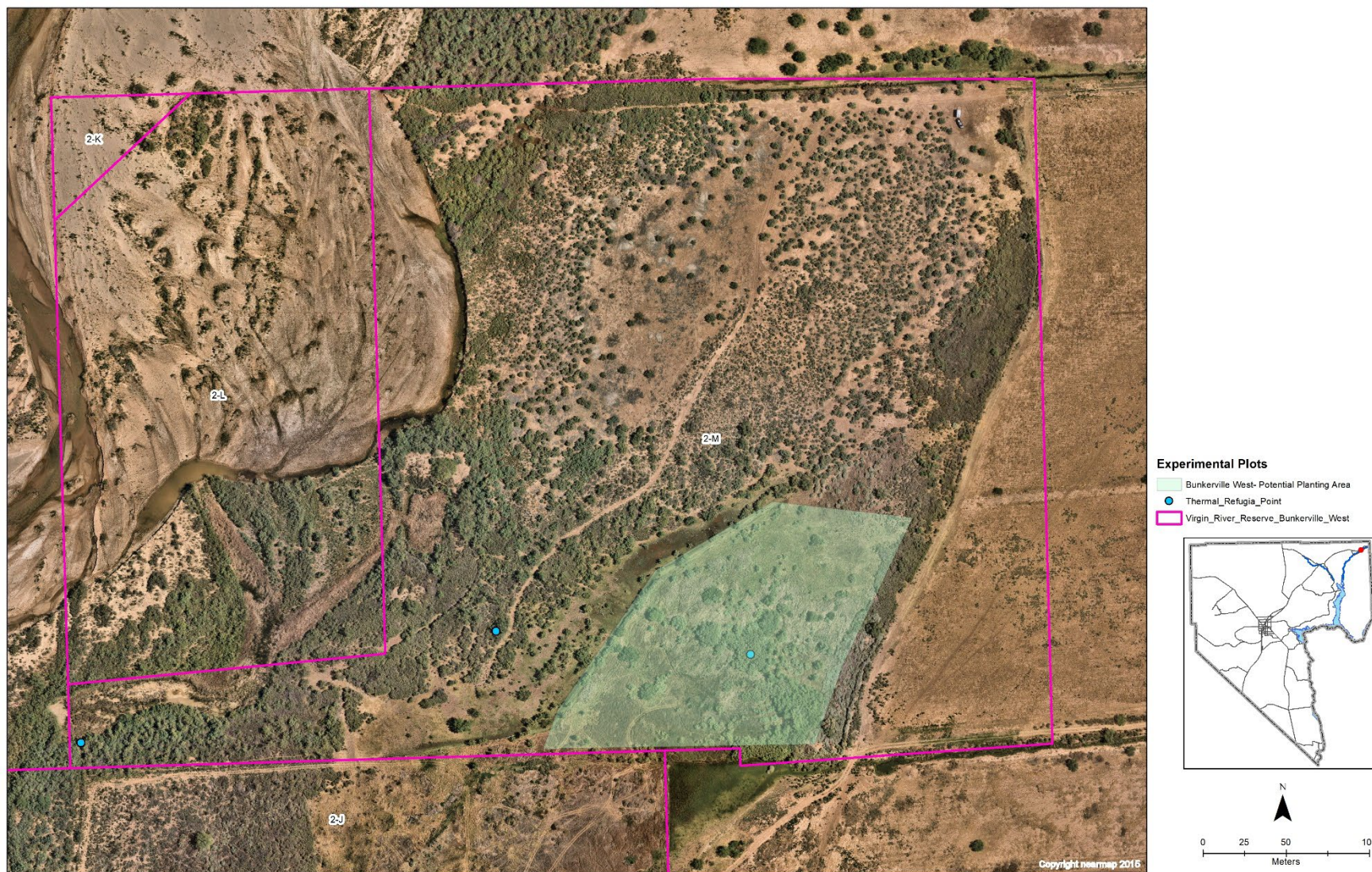


In addition to mastication, NPS foliar treated along the perimeter where the equipment couldn't access.



# RESTORATION: THERMAL REFUGIA PLANTING

Bunkerville West Restoration Site



Thermal refugia study in 2024 identified an area at Bunkerville West as having the greatest microclimate similarity (temperature and relative humidity) to occupied southwestern willow flycatcher habitat.

~1400 plants grown at Song Dog Nursery were planted.

# PASSIVE ACOUSTIC BAT MONITORING



Pilot study began in 2019 with 15 monitoring locations to determine if any bat species utilize these areas.

5 locations were chosen that had the highest species diversity.

Monitoring has occurred during even years at the Riparian Reserve Units and in odd years at the BCCE.

Detectors set up in mid-May (2026), deployed for 30 nights at each site to increase chances of detecting rarer species, which is our primary concern. Only monitored 4 of 5 riparian sites because of equipment malfunctioning.

Recordings from this year haven't been analyzed –potentially after summer 2027.

**Table 3. Bat Species Identified Acoustically Within the Project Area.**

| Common Name                 | Scientific Name                  | 6-letter Code | MSHCP* | Survey Site(s) Detected† |
|-----------------------------|----------------------------------|---------------|--------|--------------------------|
| Pallid bat                  | <i>Antrozous pallidus</i>        | ANTPAL        | –      | BS, MR, RS               |
| Townsend's big-eared bat    | <i>Corynorhinus townsendii</i>   | CORTOW        | E, PC  | MR                       |
| Big brown bat               | <i>Eptesicus fuscus</i>          | EPTFUS        | –      | BS, MR, RS               |
| Silver-haired bat           | <i>Lasionycteris noctivagans</i> | LASNOC        | C      | BS, MR, RS               |
| Western yellow bat          | <i>Lasiurus xanthinus</i>        | LASXAN        | –      | BS, MR, RS               |
| California myotis           | <i>Myotis californicus</i>       | MYOCAL        | –      | BCCE, BS, MR, RS         |
| Western small-footed myotis | <i>Myotis ciliolabrum</i>        | MYOCIL        | E      | BCCE                     |
| Fringed myotis              | <i>Myotis thysanodes</i>         | MYOTHY        |        | MR                       |
| Yuma myotis                 | <i>Myotis yumanensis</i>         | MYOYUM        | –      | BS, MR, RS               |
| Canyon bat                  | <i>Parastrellus hesperus</i>     | PARHES        | –      | BCCE, BS, MR, RS         |
| Brazilian free-tailed bat   | <i>Tadarida brasiliensis</i>     | TADBRA        | –      | BCCE, BS, MR, RS         |

\* MSHCP status (Clark County 2000, 2019): C=covered; E=evaluation; PC=proposed covered  
† Clark County Desert Conservation Program Reserve System Study Sites: BCCE = Boulder City Conservation Easement; BS = Bunkerville South; MR = Muddy River; RS = Riverside



# RIPARIAN RESERVES – MANAGEMENT

During bat monitoring in May, there was evidence of beaver damage on one of the few mature Gooddings willow at Bunkerville West.



# RIPARIAN RESERVES – MANAGEMENT



We installed  
some fencing  
to protect the  
trunk.



# RIPARIAN RESERVES – MANAGEMENT

-Installed some  
fencing to  
protect the  
trunk.

-Set up a  
camera to  
monitor the  
adjacent tree.



# RIPARIAN RESERVES – MANAGEMENT



07/08/2026 11:31 PM 80°F 27°C  SPYPOINT



07/01/2026 03:34 AM 61°F 16°C  SPYPOINT FLEX

# RIPARIAN RESERVES - MANAGEMENT



07/31/2026 06:54 PM 105°F 41°C



08/05/2026 06:18 AM 75°F 23°C

SPYPOINT FLEX

# RIPARIAN RESERVES - MANAGEMENT



07/30/2026

08:18 PM

82°F

27°C



SPYPOINT FLEX

# ONGOING AND FUTURE



- Continued monitoring of previous restoration sites for invasive weeds
- Future restoration projects in the planning stage:
  - Bunkerville – continued tamarisk treatment
  - Mormon Mesa – Low Tech Process Based Restoration
  - Mormon Mesa South – Mastication
  - Muddy River – floodplain reconnection
- Presentations later today
  - NPS - Vegetation Management
  - SWCA - Parasitism and Avian Nest Monitoring
  - UNLV/BEC - Desert Pocket Mouse: Threats Assessment, Habitat Characterization, and Conservation Planning

