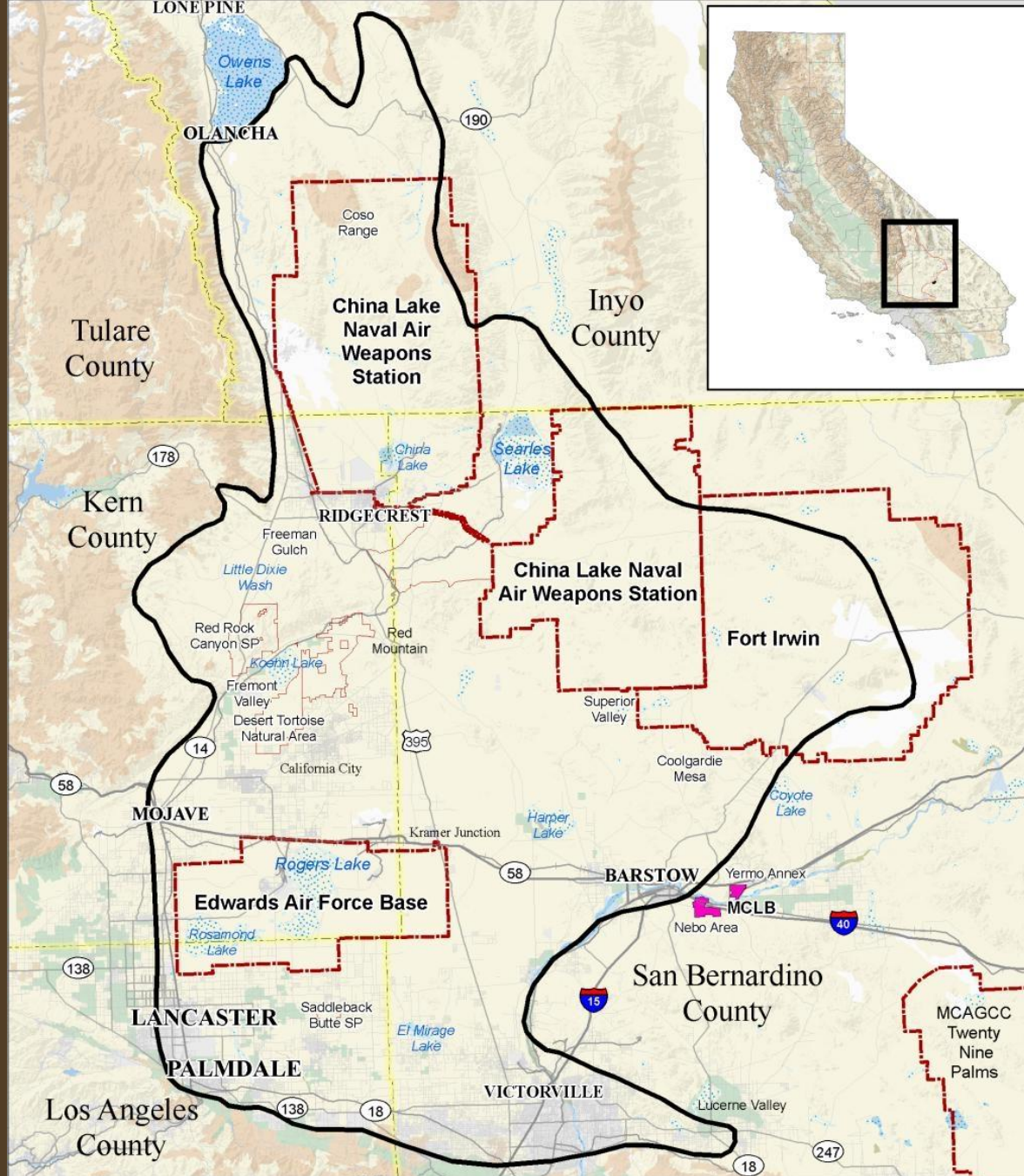



# MOHAVE GROUND SQUIRREL SURVEYS AT MARINE CORPS LOGISTICS BASE BARSTOW

Phil Leitner

CSU Stanislaus

Endangered Species Recovery Program



 Boundary of Mohave ground squirrel range

 Marine Corps Logistics Base (MCLB) Barstow

0 5 10 20 30 40 50 Miles

0 10 20 40 60 Kilometers

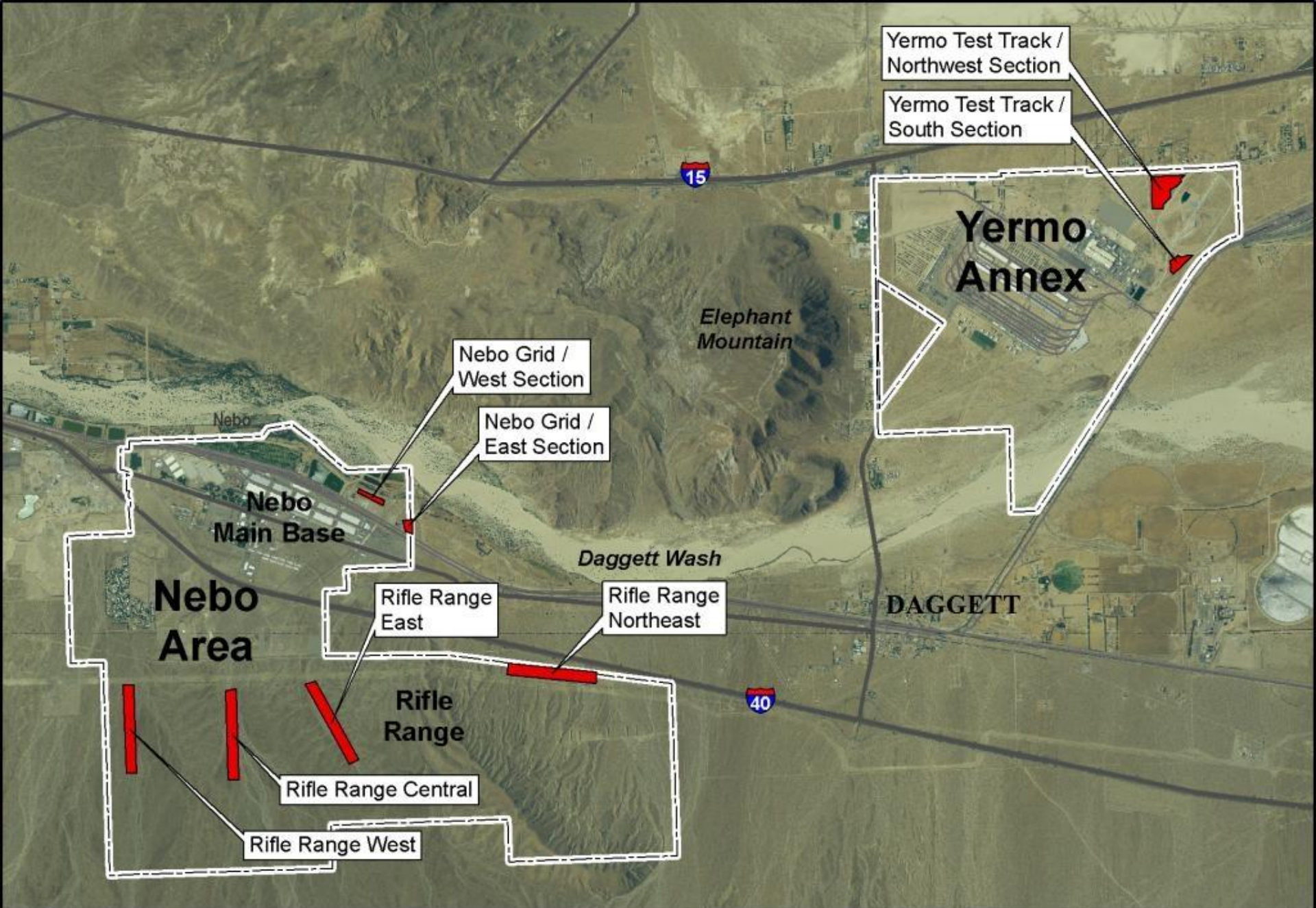


# MARINE CORPS LOGISTIC BASE BARSTOW


- Located several miles east of Barstow
- 3 land parcels totaling 5405 acres
- Warehouses, repair shops, military housing concentrated at Nebo and Yermo
- Rifle Range is 2438 acres of desert scrub habitat
- Smaller patches of desert habitat at Nebo and Yermo

# MOHAVE GROUND SQUIRREL SURVEY 2009

- It has been suggested that Mohave ground squirrels could occur at MCLB
- CNDDDB has historic records in Barstow and near Daggett
- Six study sites were selected
  - One at Nebo property
  - One at Yermo Test Track
  - Four on the Rifle Range



 Trapping grid

 Marine Corp Logistics Base Barstow



<b>Grid name</b>	<b>Type of trap</b>	<b>Number of traps</b>	<b>Trapping effort (trap-days)</b>
Rifle Range West	Pymatuning	100	500
Rifle Range Central	Pymatuning	100	500
Rifle Range East	Sherman	100	500
Rifle Range Northeast	Sherman	100	500
Nebo Main Base			
West Section	Pymatuning	15	75
East Section	Pymatuning	15	75
Yermo Test Track			
Northwest Section	Pymatuning	67	335
South Section	Pymatuning	26	130

# April 2009 Trapping Results

Grid	Trapping dates	Mohave ground squirrel			White-tailed antelope squirrel		
		Adult		Juvenile	Adult		Juvenile
		Male	Female		Male	Female	
		Male	Female	Juvenile	Male	Female	Juvenile
Rifle Range West	April 16-20	0	0	0	3	3	1
Rifle Range Central	April 16-20	0	0	0	1	6	0
Rifle Range East	April 17-21	0	0	0	2	6	0
<b>Totals</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>15</b>	<b>1</b>

# May 2009 Trapping Results

Grid	Trapping dates	Round-tailed ground squirrel			White-tailed antelope squirrel		
		Adult		Juvenile	Adult		Juvenile
		Male	Female		Male	Female	
		Male	Female	Juvenile	Male	Female	Juvenile
Rifle Range Northeast	May 10-14	0	0	0	4	4	14
Nebo Main Base	May 10-14	0	0	0	2	3	2
Yermo Test Track	May 11-15	0	4	0	0	0	0
<b>Totals</b>		<b>0</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>7</b>	<b>16</b>

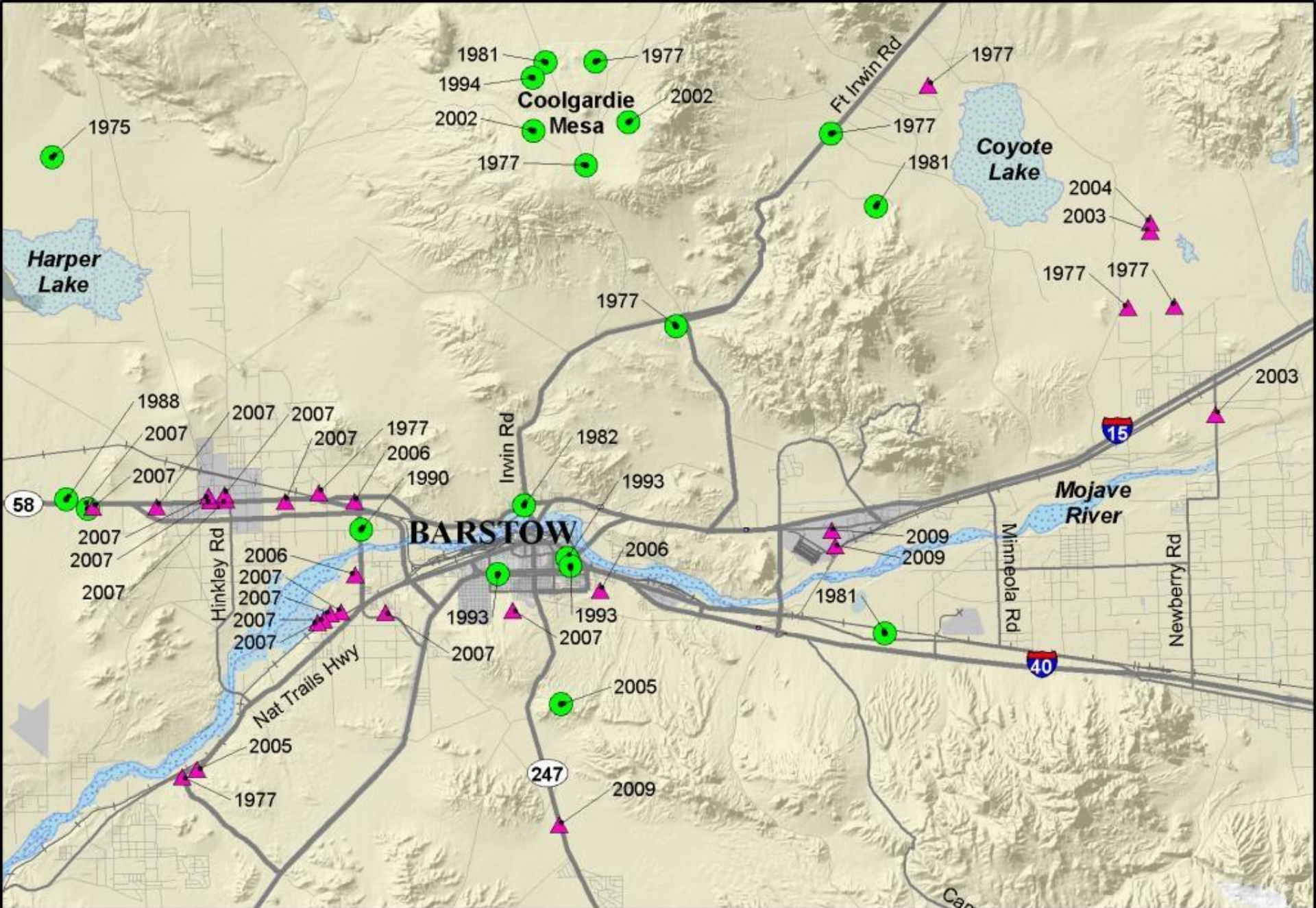


# Summary

- No MGS detected at any trapping site
- Adult female RTGS at Yermo Test Track
  - Sandy creosote bush habitat near Mojave River Wash
  - No juvenile RTGS trapped or seen
  - Adult females were post-lactating
- AGS at all grids in Rifle Range and Nebo
  - No AGS detected at Yermo

# MGS Status in Barstow Region

- CNDDDB records show MGS east of MCLB near Daggett
- Several MGS occurrences to west in Barstow
- Visual detection in 2005 near Barstow landfill
- Also a number of RTGS records in Barstow region



- Mohave ground squirrel
- ▲ Round-tailed ground squirrel



# CNDDDB Corrections

- 1981 records near Daggett and west of Coyote Dry Lake were RTGS
- 1993 records in Barstow are being removed from CNDDDB
  - They were based on auditory or visual detections
  - The species identity is now considered uncertain



# Current Picture

- Clear recent evidence for MGS presence at Coolgardie Mesa, Harper Lake, and west of Hinkley
- Barstow landfill sighting is only recent evidence S and E of Mojave River and Fort Irwin Road
- Area around landfill should be surveyed to clear up status here